# PAU GRAMMAR

E. Muller

### About the book

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### PĀLI GRAMMAR

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### **PREFACE**

In sending the present essay of a Pāli Grammar to the press, I feel bound to say a few words of explanation as to the plan I have followed. First of all, I must state that it was not my inention to give a complete Grammar of the Pāli Language, as this can only be done when all the principal books of the Buddhist Canon will have been published; nor was it my intention to write a Comparative Grammar of Indian vernaculars, as for this purpose the space granted to me would have been too small. I only intended to help the students of Buddhistical literature, by collecting the idiomatical peculiarities of the sacred language, comparing it chiefly to Sanskrit, and in a few cases also to the other Indian vernaculars. As the publication of Pāli texts has taken so wide dimensions during the last ten years, I thought it would not be out of place to consider and work out the new materials that have come into our possession through these books, mostly unknown to Childers and the others who made Pāli Grammar an object of their studies. Even E. Kuhn, whose "Beiträge zur Pāli Grammatik" have been of great help to me, and whose plan I followed almost throughout my book, only worked from a comparatively small number of texts, and just the oldest and most interesting, like Vinaya and Jātaka, were all but unknown to him.

It would be rather out of place in an elementary Grammar to enter into a long discussion about the age and origin of the Pāli language. A few words on the subject will be sufficient: Kuhn, following Westergaard, holds Pāli to be the vernacular of Ujjein, the capital of Mālava at the time when Mahinda, the son of Asoka, took the sacred Canon with him to Ceylon (Beiträge, p.7). On the other hand, Oldenberg, rejecting that tradition, considers Pāli to be the original language of the Kālinga country (Vinayapiṭaka, Introduction, p. liv). He compares the language of the large inscription at Khandagiri (Cunningham, Corpus Inscriptionum, i. 98), and finds only very little difference between this and the Pāli. From this he concludes that there must have been, about a hundred and fifty years before Mahinda, a frequent intercourse between Kalinga and the island; in fact, that the

religion, together with its language, was brought over from there to Cevlon. I had myself formed a similar idea, independently from Oldenberg, by a careful examination of the first settlements of the Gangetic tribes in Ceylon (see my Report II. to the Government of Cevlon, reprinted Ind. Ant. IX. 9); and, recently, Mr. Nevill, in the Journal of the Ceylon Branch of the Royal Asiatic Society, has pointed out that the ancient civilized and populous district of Cevlon, the socalled Kalāwa, is not to be looked for at the south coast near Galle, as most people believe, but in the north-western district of the island, which is now almost a desert. We therefore all agree that the Arvan immigrants did not come by sea from Bengal, in which case they would have landed somewhere at the east or south coast, but that they crossed over from some port in Southern India; and, under these circumstances. it is not at all unlikely that the point from which they started may have been the kingdom of Kālinga. To the person of Mahinda we need not attach much importance from a chronological point of view, perhaps not more than to the person of Vijaya, the first Gangetic immigrant in Ceylon according to tradition.

About the age of the Pāli language it is even more difficult to form a certain opinion than about its native country. The late R. C. Childers, in the Preface to his Dictionary, p. ix, attributed a very high antiquity to it, with especial reference to an inscription on the Sthupa of Bharhut, which contains a quotation from Cullavagga, vi.4. This argument, however, is not conclusive, as already P. Goldschmidt pointed out in the Journal of the Ceylon Branch of the Royal Asiatic Society for 1879. It was generally expected that we would get some help from the Ceylon inscriptions for fixing the age of the Pāli language, but unfortunately this expectation has not been fulfilled, as all those inscriptions from which we might derive an argument are not sufficiently dated. Real Pāli inscriptions have not been found in Ceylonnot more than in Cambodia. Those that approach nearest are almost identical in their language with the above mentioned Khandagiri inscription. There is, for instance, the one at Kirinde (No. 57 of my Ancient Inscriptions in Ceylon), which, for palæographical reasons, I have assigned to the first or second century A.D., about the time when, according to tradition, the doctrines of Buddhism were first reduced to writing in Pāli. The language of this inscription agrees in many points with Pali, but it is too short, and the date is too uncertain that I could follow Goldschmidt, who felt inclined to make use of it for fixing the age of the sacred language. Neither can I agree with Kern,

who holds Pāli to be an artificial language altogether. It is certain that some considerable time must have elapsed before the Pāli recension of the Canon was completed, and that through the continguity of congnate vernaculars, like the Māgadhī, a number of word and forms found their way into Pāli which originally did not belong to it: in this way the so-called Māgadhisms, which Kern induces to prove the artificial character of the language, are easily explained. In spite of these, Pāli conserved a certain purity during the whole middle age, and even late texts like the Dāṭhāvaṃsa and Attanagaluvamsa (thirteenth century), although they introduce a large number of compounds after the Saṃscritic fashion are comparatively free from dialectic peculiarities. Not before the time when the second part of the Mahāvaṃsa was composed we find a wholesale import of Sinhalisms into the language, scarcely disguised by Pāli terminations, as, e.g., mahālāno, 'Chief Secretary,' translated back from the Sinhalese mahalaenan.

I have only occasionally attempted in this book to distinguish between the different periods of the language. When the student will have overcome the first difficultities, he will find all the necessary information on this subject in Fausböll's Introduction to "Ten Jātakas" and Trenckner's "Pāli Miscellany." I may say here so much, that on the whole the forms of the Sinhalese MSS. are older and more genuine, while the Burmese often replace them by more modern, more common, or more regular ones. I reserve for another occasion the interesting task to prove this by comparing a certain number of MSS., especially of grammatical texts

Another part of the Grammar, which is totally wanting in my essay, is the Syntax; but here I hope that the classical languages, with which no doubt nearly all mu readers are acquainted, will fill up the gap. Sanskrit, so to say, has no Syntax at all, but expresses all the relations in a sentence merely by compounds. This way, however, was given up at an early date by the Indian vernaculars, and a form of constrution was introduced which bears a close resemblance to the Syntax of the classical languages. Under these circumstances, I have thought it best, as I had no space to give a complete Syntax to add at the end the Grammar a short Jātaka, with an analysis that might help the student to understand the Pāli construction.

The texts I principally took my examples from are the historical books Dīpavamsa and first part of the Mahāvamsa, for which I compared the new edition published by Sumangala and Baṭuwantudāwa in 1880;

besides the Vinaya. the three published volumes of the Jātaka, the Milindapanha, and the first year's publications of the Pāli Text Society, including Anguttara Nikāya, Buddhavaṃsa and Cariyāpiṭaka. I availed myself of the opportunity to mention some particularly interesting forms Thera- and Therīgāthā and Khuddasikkhā. Of Fausböll's Sutta Nipāta I could use for the Grammar only the stanzas given in the footnotes of his transalation ("Sacred Books," vol. xiii). The edition of the text came into my hands when I had very nearly done.

E. Müller

### **ABBREVIATIONS**

The abbreviations are the same as in Childers' Dictionary, and besides the following new ones:

Ang. = Anguttara Nikāya ed. Morris.

Ass. S. = Asslāyanasutta ed. Pischel.

Beitr. = Beiträge zur vergleichenden sprachforshung

herausgeg. von Bezzenberger.

Bv. = Buddhavaṃsa ed. Morris.

C. = Cullavagga ed. Oldenberg.

Cariy. = Cariyāpiṭaka ed. Morris.

Dāṭh. = Dāṭhāvaṃsa ed. Cumāra Swāmı.

Dhm. = Dhātumañjūsā ed. Baṭuwantudāwe.

Dīp. = Dīpavaṃsa ed. Oldenberg.

Gr. = Sept Suttas Pālis ed. Grimblot.

Hem. = Hemacandra ed. Pischel.

It. = Itivuttaka.

I.O.C. = India Office Catalogue.

K.Z. = Kuhn's Zeitschrift für vergleichende Sprach-

forschung.

M. = Mahāvagga ed. Oldenberg.

M. N. = Majjhima Nikāya.

Naigh. = Naighantuka.

P.M. = Pāli Miscellany, by Trenckner.

Pāiyal. = Pāiyalacchī ed. Buhler.

Rūp. = Das sechste Kapitel der Rūpasiddhi herausgegeben

von Grüwedel.

Saddammop. = Saddhammopāyana ed. Batuwantudāwe.

S.N. = Sutta Nipāta ed. Fausboll.

Samanta Pās. = Introduction to the Samanta Pāsādikā in the third

or S.P. vol. of Oldenberg's Vinaya

Suttavibh. = Suttavibhanga ed. Oldenberg.

Vinaya Texts = Vols. xiii. and xvii. of Max Müller's Sacred Books.

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### PĀLI GRAMMAR

### 1. The Alphabet

There are three Alphabets in which Pāli manuscripts are written—the Sinhalese, the Burmese and the Kambodian. They all are derived from the Açoka Alphabet used in the ancient inscriptions of India, but represent a more current and an easier style of written. The Devanāgarī Alphabet, which was used by Spiegel in editing his Anecdota Pālica, is never found in Pāli manuscripts. We shall, however, for the convenience of those who have studies Sanskrit, in the following table give the Devanāgarī letters corresponding to the Sinhalese characters. Since Fausböll's edition of the Dhammapada, published in 1855, nearly all editiors of Pāli books in Europe have made use of the Roman character, as being easier to learn and less tiring to the eye. Unfortunately, a uniform way of transcription has not yet been arrived at in Pāli, any more than in Sanskrit; but the method followed by Fausböll and Childers is now almost generally adopted, and shall also be used in this book.

# I. VOWELS $a= \mbox{3.}\; \bar{a}= \mbox{3.}\; i= \mbox{5.}\; \bar{i}= \mbox{5.}\; u= \mbox{5.}\; \bar{u}= \mbox{5.}\; e= \mbox{v.}\; o= \mbox{si}.$

 $1 = \varpi$  (Vedic).

s = H. h = B.

7. Sibilants—

Besides, there is the niggahīta, corresponding to the Sanskrit anusvāra, and marked by a small circle in the middle of the line. It is always used at the end of words, and in the middle before a sibilant. Before another consonant the nasal of the corresponding class may be used instead.

### 2. Pronunciation

The Pronunciation is, on the whole, the same as in Sanskrit. The vowels a, i, u are short, the others are long : e and o are only long when they stand in an open syllable, viz., before a single consonant. When they stand before two consonants they are pronounced short, but are long  $metri\ causa$ .

The aspirates are pronounced like the corresponding surds with the additions of an h. Therefore, th does not correspond to the English th, but rather to the German in *Thun*, *That*. Ch has the same pronunciation as the simple c = Enlgish ch in child.

It is very difficult for a European to pronounce the cerebrals or linguals correctly. In India and Ceylon the natives almost constantly express our dentals by their cerebrals in words taken over from our language. It seems, therefore, that our dentals agree more with their linguals in prounciation than with their dentals. I have, however, not been able to mark in the spoken language any difference between the pronunciation of the dentals and of the cerebrals.

The nasals are pronounced according to the class to which they belong. The guttural nasal never occurs alone, but is always followed by an explosive of its class; it sounds like English ng or nk respectively. The palatal nasal sometimes occurs doubled when an assimilation has taken place  $(\tilde{n}\tilde{n})$ , and then it has the sound of the Spanish  $\tilde{n}$  in  $do\tilde{n}a$ , or of the French gn in campagne. The dental nasal is exactly pronounced like n, and the labial like m.

The niggahīta, or nasal breathing at the end of the word, is pronounced in Ceylon almost with the same force as a guttural nasal = English ng in king. Before other consonants it is only a representative of the nasal of the corresponding class, and is pronounced accordingly.

Compound consonants are almost regularly assimilated in Pāli. We therefore do not require a table of the combinations of consonants similar to that which exists in the Devanāgarī Alphabet. The rules according to which the assimilation takes place will be given in a

Vowels 3

special chapter, and the few groups of compound consonants that still exist in Pāli will be added as an appendix to the Table of Alphabets.

The pronunciation is the same as that of the single consonants.

#### 3. Vowels

The vowels found in Pāli are the same as in Sanskrit, with the exception of the r and l vowels, and the diphtohongs ai and au.

The r vowel is mostly represented in Pāli by one of the other vowels:

- (1) By a in accha = ṛksha, vijambhati=vijṛmbhati, Jāt. i. 12; tasita=tṛshita, Dāṭh. iii. 44; maṭṭha and maṭṭa = mṛshṭa, gaha = gṛha, maccu = mṛtyu.
- (2) By i in ina = rna, 'debt;' kisa = krça, 'lean;' giddha = grdhra, 'greedy;' miga = mrga, 'deer;'  $bhis\bar{\imath} = brs\bar{\imath}$ , 'mat;'  $sig\bar{a}la = crg\bar{a}la$ , 'jackal.'
- (3) By *u* in *usabha* = ṛshabha, 'bull;' *puthu* = pṛthu, 'broad;' *pucchati* = pṛchati, 'to ask;' *vuṭṭhi* = vṛshṭi, 'rain.'
- (4) By the consonant r accompanied by the vowels i or u, in iritvija = rvij, 'brahninical priest;' rite = rte, Kacc. 126; iru = re in irubbeda = rgveda, rukkha = vrksha, bruheti = bruhayati; the latter root takes also sometimes the vowel a, as in abbahati, Dh. 96, and in the participle  $brah\bar{a}$ .
  - (5) By e in geha, which is already found in Sanskrit.

The diphthongs ai and au of the Sanskrit become e and o in Pāli, that is to say, they are reduced from the second degree of vowel strengthening called vṛddhi in Sanskrit to the first called guṇa; this process is called vṛddhi by the Pāli grammarians. Examples are Gotama = Gautama, Kondanna = Kaundinya, Erāvana = Airāvana, dvelhaka = dvaidhaka, mettī = maitrī.

The diphthongs may, however, be further reduced to the simple vowels i and u, in the same way as it is done with the original e and o. We have  $mitti = maitr\bar{\imath}$ ,  $J\bar{a}t$ . i.468; issariya = aiçvarya, ussukka = autsukya, Dh. 268.

The rules laid down by the grammarians concerning the use of the vuddhi and of the simple vowel are very lax. Kacc., p. 214, prescribes the vuddhi before a single consonant, but at p. 219 he allows the forms with the simple vowel as well, e.g., abhidhamnika, vinateyya, uļumpika.

There are also two instances where an u derived from an r-vowel (see above, no. 3) becomes o by vuddhi, viz., pothujjanika, 'belonging to an unconverted person,' derived from puthujjana = prthagjana and modangika, 'one who beats the drum', derived from mutinga = mrdanga

### 4. Change of Vowels

A short a of the Sanskrit is subject of different changes in Päli. It may become:

- (1) e in etta = atra, 'there,' according to Childers, and S. Goldschmidt's Prākritica, pp. 21-23. Kaccāyana, p. 110, derives it from etatha by shortening of the syllable eta into e; but Hemacandra, 1. 57, has the right explanation. Similar forms are ubhayettha = ubhayatra, 'on both sides,' given in the commentary, Dhp. p. 96, while the text at v. 15 has ubhayattha, heṭṭhā and heṭṭhato, 'below' = adhastāt; pure, 'before,' with its compositions puresamana, 'the companion who precedes a bhikkhu;' puresamana, 'the morning meal;' puretaram, Dh. 84, 135; antar in antepura = antaḥpura, 'harem' (antopuram, Dh. 162, 291); antovatthumhi, Mah. 253; antaravatthumhi, Jāt. i. 232; antorukkhatā, Jāt. i. 7; pheggu = phalgu, 'empty.' In seyyā = çayyā, 'couch,' the change of a to e is effected by the following y, and the same has taken place in peyyāla = pariyāya, if the derivation given by Oldenberg, K.Z. xxv. p. 315, and Trenckner, Pāli Miscellany, p.66, is correct.
- (2) a becomes i in tipu = trapu, 'lead,' kaļimbhaka = kaḍamba, 'point,' C. v. ii. 3; pilāla = palāla, 'straw,' Jāt. i. 382; timisa = tamasa, 'darkness,' Mil. 283, and timissā = tamisrā, Jāt. iii. 433; nilicchita = nirashṭa according to Treanckner, Pāli, Misc. p. 55. A great many more examples might be adduced for this change, which is a very frequent one in Pāli.
- (3) a becomes u principally through the influence of a labial, that may stand either before or after the vowel, or even at some distance from it. Examples are  $sammu\bar{n}jan\bar{\imath}$  and  $sammujjan\bar{\imath}$ . Jāt i. 161 =  $samm\bar{a}rjan\bar{\imath}$ , 'a broom;'  $nibbusitatt\bar{a} = nirvasit\bar{a}tm\bar{a}$ , Grimblot, Sept suttas Pālis, 23; nimujjati = nimajj, 'to sink;' puthujja = prthagja, 'common,' Fausböll, Sutta Nipāta 171,  $pannuv\bar{\imath}sati = pancav\bar{\imath}sati$ , 'twenty-five,' Jāt. ii. 138. There are, however, also examples of this change where there is no labial contact, e.g. thunanti, 'they sound,' from stan (the participle  $mitthanam\bar{\imath}ana$  occurs at Jāt. i. 463, and

nutthananta Jāt. ii. 362);  $bhr\bar{u}nahu = bhr\bar{u}nahan$ , 'killing the embryo,' Fausb., S. N. 122; ajjuka = arjaka, 'the white parṇāsa;'  $\bar{a}gu = \bar{a}gas$ , 'sın;' pajjuṇṇa = parjanya, 'cloud;' sajju = sadyas, 'instantly;' sajjulasa = sarjarasa, 'resin,' M. vi. 7. In  $us\bar{u}y\bar{a} = as\bar{u}y\bar{a}$ , 'envy,' and in  $ku\bar{n}utha = kankushta$ , 'a sort of earth,' the change is due to the assimilation of the vowels.

(4) a becomes o in sammosa = sammarsha, 'confusion,' Gr. 25, Mil. 266, anto = antar, 'inside,' and its compositions, tirokkha = tiraska, 'absent,' Suttavibh. i. 185.

Sanskrit  $\bar{a}$  is subject to the following changes:

- (1) It becomes e in  $p\bar{a}revata = p\bar{a}r\bar{a}pata$ , 'pigeon' ( $p\bar{a}r\bar{a}pata$  occurs at Jāt. i. 242);  $mettika = m\bar{a}trka$ , Cariy. i.9, 11; khepeti = kshapayati, from kshap, the causative of kshi according to Trenckner, Pāli Misc., p. 76, and Senart, Mahāvastu, p. 492;  $theto = sth\bar{a}tr$ , Brahmajālasutta, p. 5;  $seleti = c\bar{a}c$ , 'to fall off,' Buddhavaṃsa i. 36 (toselheti, C. i. 13, toselheti, as the translators of the passage world make out, Vinaya Texts, ii. 349). The change is effected by a toselheti standing before or after the vowel in toselheti according to the passage world make out, Vinaya Texts, ii. 349). The change is effected by a toselheti standing before or after the vowel in toselheti according to toselheti standing before or after the vowel in toselheti according to toselheti standing before or after the vowel in toselheti according to toselheti standing before or after the vowel in toselheti according to toselheti standing before or after the vowel in toselheti according to toselheti standing before or after the vowel in toselheti according to toselheti standing before or after the vowel in toselheti according to toselheti standing before or after the vowel in tose
- (2) It becomes o in tumo = tmanā, 'self,' C. vii. 2, 3, Oldenberg K.Z. xxv. 319; parovara = parāvara, from para + avara, 'perfect,' Fausb., S.N. 59, 193; doso = doshā, 'at night;' dhovati = dhāv, 'to wash.'
- (3) It becomes  $\bar{u}$  in some compositions with the root  $g\bar{a}$ , 'to go,' like  $addhag\bar{u}$ , 'a traveller;'  $p\bar{a}rag\bar{u}$ , 'one who has crossed to the other side,' probably through an intermediate o (see no. 2), as we have atigo, Dhp. v.370;  $p\bar{a}rago$ , Mah. 60, 250;  $vivarantag\bar{u}$ , Jāt. ii. 208. The same change taken place in compositions with  $j\bar{n}\bar{a}$ , 'to know;' as,  $vi\bar{n}\bar{n}\bar{u}$ , 'clever;'  $sabba\bar{n}\bar{n}\bar{u}$ , 'omniscient;'  $vada\bar{n}\bar{n}\bar{u} = vadanya$ , 'bountiful,' is clearly constructed after the false analogy of these forms, but has nothing to do with  $j\bar{n}\bar{a}$ .  $Tada\bar{n}\bar{n}u$ , Saddhammopāyana, v. 177, is composed with  $j\bar{n}\bar{a}$ , and is different from  $tada\bar{n}\bar{n}a = tad + anya$ , occurring at v. 149 of the same poem.

Sanskrit i is subject to the following changes:

(1) It becomes a in  $k\bar{a}kanik\bar{a}=k\bar{a}kinik\bar{a}$ , 'a small coin;'  $pathav\bar{v}=prthiv\bar{v}$ , 'the earth;'  $pokkharan\bar{v}=pushkarin\bar{v}$ , 'lotus tank;'  $gharan\bar{v}$ 

= gṛhiṇī, 'wife,' M. viii. 1, 12; paṭaṅga = phaḍiṅga, 'a flying insect,' Dh. 412, Mil. 272; sākhalya, 'friendship,' Childers s. v. sakhilo, and some futures like icchasaṃ, pamādassam, mentioned by Trenckner, Pāli Misc., p. 75. A doubtful form is ānañja, Jāt. 1. 415, ii. 325; Suttavibh. i. 4; Sāmaññaphalasutta ed. Grimblot, p. 143. A various reading is ānañca, which is found besides in Mahāparinibbānas., p. 34, and Burnouf, Lotus, pp. 306, 467, 866; but Buddhaghosa, at Suttavibh. i. 267, explains it by ānejjappatte, acale, niccale and if this is correct it can have nothing to do with Sanskrit ānantya, but must be derived from the Pāli root iñj = Sanskrit iṅg, 'to move.' Comp. Childers, s.v. āneyaṃ, and p. 454, and Senart, Mahāvastu, p. 399.

(2) It becomes e in etta, 'so much' = Skt. iyant, Senart, Mahāvastu, p. 384 (but not etto, 'hence,' which is derived from etta = eta, Goldschmidt, Prācritica, pp. 21-23); vihesā = vihimsā, 'vexation,' and the verb viheseti, 'to annoy,' Jāt iii. 295; vehāgamana = vihāgamana, 'coming through the air.' Mah. 157; vematika = vimatika, 'inconsistent;' vemajiha = vimadhya, 'the middle;' Vessabh $\bar{u}$  = Viçvabh $\bar{u}$ , 'a name of Buddha; mañjettha = mañjishtha, 'light red;' keratika, Jāt. i. 461, and kerātiya, Jāt. iii. 260 = kirāta, 'hypocrite', (comp. Indian Antiquary, vi. 40); esikā=kināṭa, 'pillar' (but īsikā, Sāmaññaph. S. ed. Gr., p. 144), Brahmaj. S 18, neuter pl. esikāni, Jāt. ii. 95; terovassika, 'more than a year old' = Skt. tirovarshika like Vedic tiro ahnya, Morris' Report on Pāli Literature. p. 6; dvebhāga, dvebhāva, dvebhūmaka = dvibhāga, divibhāva, dvibhūmaka; pettāpiya = pitrvya, Trenckner, Pāli Misc. 62; mātāpettibhara, 'supporting one's parents,' = mātr + pitrbhara, tekiccha, 'curable,' from cikitsā, etthi = ishţi, 'wish,' Khuddasikkhā. A difficult form is the adverb seyyathā, 'just as,' in a comparison, which is explained in different way by the grammarians. Trenckner, Pāli Misc. p.75, explains it as a Magadhizing form, corres-ponding to the Skt. tadyathā, and he is followed by Senart, Mahāvastu p. 415, who adduces the corresponding form of the northern Buddhists sayvathidam, already mentioned by Léon Feer, Etudes Boudhiques, p. 313. I believe this explanation preferable to that of E. Kuhn, who considers it as a potential atmanepadam of the root as 'to be.' A form seyatha occurs in the inscription of Bhabra, Cunningham, Corpus Inscriptionum Indicarum, p. 111. A similar change of a to e is in yebhuyya = yad +bhūyas, Instr. yebhuyena, 'generally,' 'mostly.' The corresponding from of the northern Buddhists is yobhūyena, Senart, Mahāvastu 422.

- (3) It becomes u in kukkusa = kiknasa, C. x. 27, 4, kukku = kishku, 'measure of length,' M. vii. 1, 5;  $nicchubh\bar{t}yati = kshiv$ , 'to spit out,' M<sub>1</sub>l. 188; also written nichubhati, Cariyāp. ix. 23, Bv. xi. 15, Jāt. iii. 512, 513; participle, nicchuddha, Mil. 130, Dh. 8, 202;  $r\bar{a}jula = r\bar{a}jila$ , 'a lizard;' geruka = gairika, 'red chalk,' M. i. 25, 15.
- (4) It becomes o in *onojeti*, 'to dedicate,' M. i. 22, 18 = avanejayati according to Kern, Buddhism, p. 92.

Sanskrit  $\bar{i}$  is subject to the following changes:

- (1) It becomes a in kosajja, 'idleness' = kausīdya; bhasma = bhīshma, 'dreadful,' C. vii. 4, 8 (another form bhesma occurs Ab. 167, and bhisma in the Mahāsamaya ap. Grimblot, p. 288).
  - (2) It becomes  $\bar{a}$  in tiracchāna = tiraçcīna, 'an animal.'
- (3) It becomes e in khela = krīdā, 'play,' Dāṣh. i. 41, Pischel Beitr. iii. 254; kelāyatha, Mil. 73,  $\bar{a}vel\bar{a} = \bar{a}p\bar{i}da$ , 'a garland;' Prāk.  $\bar{a}mela$ , Hem. i. 105; ereti, 'to utter,' Dh. v. 134; according to Trenckner, Pāli Misc. p. 76 = ireti. E for  $\bar{\imath}$  is found frequently in derivative syllables, as in the abolutive  $gahetv\bar{a}$  for gṛhīvā, in  $\bar{a}j\bar{a}neyya$  for  $\bar{a}j\bar{a}n\bar{i}ya$ , and similar forms given by Kacc. p. 196. There is a present  $seyyasi = c\bar{\imath}ryasi$ , from car, 'to throw down,' occurring only in this form Jāt. i. 174, Dh. 147. The commentary explains it by  $visinnaphalo\ hoti$ . Crībecomes se in the names of two plants,  $sepann\bar{\imath}=cr\bar{\imath}parn\bar{\imath}$  and  $sephālik\bar{a}=cr\bar{\imath}phālik\bar{a}$ .
- (4) It becomes u in the root thubh = shthīv, 'to spit;' also written thuh, as in nitthuhati, S. i. 132; nutthuhati, C. vi. 20, 2, M. viii. 1, 11. The form nitthu occurs also in Prākṛt, Deçīnāmmālā, iv, 41.

Sanskrit u is subject to the following changes:—

- (1) It becomes a in sakkhali = çashkuli, Jāt. ii. 281, Suttavibh.i.55; ayaru and agalu = aguru, 'Agallochum;' dudrabhi = doundubhi, 'drum,' M. i. 6, 8; vākarā or vākara, Jāt, iii. 541 = vāgurā, 'net;' phallati = phull, 'to bear furit,' and pharati = sphur, 'to flash.' Bāhusacca is derived by Childers from bāhuçrutya, by Fausböl from bāhusmārtya; the analogy of muṭṭhasacca, however, adduced by Childers, points to the latter etymology. Rathesabha, 'king,' is according to Trenckner, Pāli Misc. p. 59 = ratheçubh; according to Senart, Mahāvastu, p. 429 = ratha + ṛshabha.
- (2) It becomes i in dindima = dundubhi, 'drum,'  $D\bar{p}$ . 96; khipati = kshu, 'to sneeze,'  $mudit\bar{a} = mudut\bar{a}$ , Senart, Mahāvastu 629. The

identity of *sippī* and çuktī, 'pearl oyster,' assumed by Trenckner, Pāli Misc. 60-75, remains doubtful.

(3) It becomes o chiefly before a double consonant, as in okkā = ulkā, 'torch,' Jāt. i. 34; pottha = pusta, 'a modelled figure,' Jāt. ii. 432, and its derivatīve, pothalikā, or potthanikā, M. vi. 23, 3, C. vii. 3, 4; Prāk. puttalitā or potthanikā, M.V. 23, 3, C. vii. 3, 4,; Prāk. puttaliā, Pāïyalacchī 117; vokkamati = vyutkramati (comp. Pischel's remarks to Hem. i. 116); pāmokkha = pramukhya (pāmukhha, Jāt. i. 371). There are, however, also instances of the change before a single consonant, as kolañāa = kulaja, 'of good family,' Mil. 256 (for the termination comp. aggañāa and Senart's remarks Mahāvastu, p. 617); koliya, Jāt, iii. 22, and kolīniya, Jāt. ii. 348 (if the reading koleyya is not to be preferred, kulīna occurs at Mah. 245); and kolaputti, which is not to be considered as a vuḍḍhi with Trenckner, Pāli Misc. p. 64. Pāli koṭi represents to Skt. kuṭi as well as koṭi, Lotus 432; anopama, Jāt. i. 89; Mahāvastu 511 is = anupama, Mah. 240.

Sanskrit  $\bar{u}$  is subject to the following changes:

- (1) It becomes  $\bar{a}$  in  $mas\bar{a}raka = mas\bar{u}raka$ , 'a sort of bed,' C. vi. 2, 3.  $Bh\bar{a}kuti$ , Suttavibh. i.  $181 = bhr\bar{u}kuti$ , 'eye-brow,' most probably goes back to the Skt. bhrakuti or bhrkuti. The common Pāli word bhamu is not, as Childres explained it, a careless pronunciation of bhr $\bar{u}$ , but an abbreviation of bhamuka or bhamuha = bhr $\bar{u}$ mukha, as is shown by the Pr $\bar{a}$ k. bhamay $\bar{a}$ , Hem. ii. 167. The Sinhalese baema also goes back to this form.
- (2) It becomes  $\bar{i}$  or i in  $bh\bar{i}yo$ , bhiyyo =  $bh\bar{u}yas$ , and in niyura =  $n\bar{u}pura$ , 'bracelet,' which, however, might stand for nidhura.
- (3) It becomes o in  $oja = \bar{u}rjas$ , 'strenght,' Jāt. i. 68, Dh. 132;  $onav\bar{s}sativasso = \bar{u}nav^\circ$ , 'less than twenty years old.'

Sanskrit e is subject to the following changes:

- (1) It becomes a in milakkha = mleccha (comp. K.Z. xxv. 327), and in some verbal forms like akaramhasa, Dh. p. 147.
- (2) It becomes  $\bar{a}$  in  $k\bar{a}y\bar{u}ra = \text{key\bar{u}ra}$ , 'bracelet,' C. v. 2, 1,  $J\bar{a}t$ . iii. 437.
- (3) It becomes *i* before double consonants, as in *pasibbaka* = prasevaka, 'bag'; *paṭivissaka* = prativeçaka, 'neighbouring;' *ubbilla* = udvela in *ubbillabhāva*, 'lengthiness,' Saddammopāyana 136; but also before single ones, as *abhijīhana* from jeh, Jāt. 546, v. 49, according to Trenckner, Pāli Misc. 78; *apavīṇati*, Jāt. 409, v. 4, from *veņ*; *pahiṇaka* and paheṇaka, 'offering,' Prāk. paheṇaya, Pāïyal. 206.

(4) It becomes o in mankato = matkṣite, Mil. 384; and in atippago = atiprage, 'too early,' corresponding to atiprāgaḥ of the northern Buddhists, Mahāvastu 418.

Sanskrit o is subject to the following changes:

It becomes u before a double consonant, and  $\bar{u}$  before a single, as in  $junh\bar{a} = iyotsn\bar{a}$ , 'a moon-lit night;' tutta = tottra, 'a pike used to guide an elephant,' Carity. iii. 5, 2; tadūpiya, 'suitable, corresponding,' which is not  $= tadr\bar{u}pya$ , as Childres suggested. Trenckner. Pāli Misc. p. 77, identifies it with Skt. tadopya, which is drived from the root vap in composition with  $\bar{a}$ , and ascribes the change of o to  $\bar{u}$ to the following i: but Senart, Inscriptions de Pivadasi i, 188, and Mahāvastu 493, takes it as a compound of tad + opaya. Visūka = vicoka, 'spectacle;' dūbha = droha, 'deceiving,' Mah. 49; khajjūpanaka, Trenckner, Pāli Misc. 59, for khajjopanaka = khadyota, 'the fire-fly;  $\bar{a}r\bar{u}gya = \bar{a}rogya$ , 'good health,' M.N. 66. Also an o contracted from ava is subject to this change, as in ussava = avacyaya, 'dew;'  $ujjh\bar{a} = avadhy\bar{a}$ , 'to blame;' and  $uddeti = oddeti = ava + d\bar{i}$ , according to Morris, Anguttaranikāya i. 24. 4. Comp. the remarks of Fausböll. Two Jātakas 13, the verb niddāyati, Jāt. i. 215, niddāpeti, C, vii. 1, 2, identified by Oldenberg with nirdātā, Manu vii. 110. An example of an o changed to u before a single consonant is ukkusa=utkroça, 'the osprey,' only written ukkūsa at Jāt. 486, v. 2, where the  $\bar{u}$  is required by the metre.

### 5. Change of Quantity

Long vowels before a double consonant are generally shortened. The reason is given by Kacc. vii. 5, 13-14, where he says that a short vowel before a double consonant as a long vowel is called garu. This rule, however, is not always followed by the manuscripts, where we often find a long vowel before a double consonant, specially when the long vowel is the result of a contraction. Fausböll, in the preface to his edition of the Dhammapada, p. vii., was the first to call attention to this inconsistency of the manuscripts, and afterwards Senart, Kacc. pp. 4, 5, has discussed it at some length. The principles established by him have been followed on the whole by the recent editors of Pāli texts, as far as the groups with assimilated consonants are concerned; and also Childers, in his Pāli Dictionary, has adopted them with a few exceptions, so he writes ājjavam instead of ājavam, Kacc. 216=Skt. ārjava, dābbī =Skt. dārvī, dātta = dātra, following Abhidbānappadīpikā. Kuhn, in his Pāli Grammar, p. 18, condemns this way of writing, and allows the

long vowel only in those instances in which a contraction has taken place, as in nāgghati = na+agghati, piyāppiya = piya + appiya. The Sinhalese editions generally follow the method of the manuscripts.

Before a nasal we generally find the law observed, as santa, danta, vanta = çānta, dānta, vānta, Kacc. 295, but the editors of the second part of the Mahāvaṃsa write lāñganakicca, Mah. 39, 28. Before other groups of consonants the editions are less consistent: we have ativākya, Ab. 122, Dh. 57; sakya, sakka, sakiya = çākya, Mah. 9, 55, Abh. 5, 336; ākhyāta and akkhāta, Kacc. 5, 220; pahatvāna = pahātrā, 'having left behind,' Dh. v. 243, 415; dussīlya, Dh. v. 162 = dauḥçīlya, 'wickedness;' balya, 'childhood,' Dh. v. 63, but bālya, Ab. 250, 1079; ñatvā and bhitvā, from jñā and bhī, Kacc. 303, Dh. 85, 379; kamyatā = kāmyatā, 'desire;' bahya = bāhya, 'external.'

Another possibility of avoiding the contanct of a long vowel with a doube consonant is to put the single consonant of the group resulting by assimilation, as in  $\bar{a}java = \bar{a}rjava$ , Kacc. 216, Ten Jāt. 98;  $k\bar{a}su = \bar{a}rjava$ karshū, 'hole,'  $\bar{u}mi = \bar{u}rmi$ , 'wave,' Ab. 662; but ummi, Mil. 346; bhānaka = bhāndaka, 'jar,' Suttavibh. 90, Ascoli Kritische Studien, p. 211;  $bh\bar{u}ja = bh\bar{u}rja$ , 'the birch;'  $ad\bar{a}si = ah\bar{a}rsh\bar{\iota}t$ , 'he took.' The same process may take place after a short vowel, which then is lengthened, as in  $s\bar{a}j\bar{i}va$  for  $sajj\bar{i}va = sad + j\bar{i}va$ , 'rule of conduct,' Pāt. 65, comp. Senart, Mahāvastu 481; vūpakāsati = vyupakarsh, 'to make clear, M. i. 25, 20, Pat. 109; svatana = cvastana, 'belonging to tomorrow,' Dh. 231; vāka = valka, 'bark of a tree;' sankāpayati = sankappayati, 'to arrange,' M. iii. 1, 2 (there are, however, two various readings, sankāyati, C. x. 18, and Anguttaranikāya, p.117, and sankāmeti, Suttavibh. i. 50, which render the etymology doubtful). Several compounds with the preposition ud, as  $\bar{u}hadeti = ud + had$ , 'to be foul with excrement;'  $\bar{u}hata = ud + hata$ , 'destroyed,' Dh. 375, Mahāvastu, 379, 566; ūhasana, from ud + has, 'laughter,' Mil. 127. Uhanati, M. i. 49, 4, Suttavibh. ii. 40, seems to be synonymous with ūhadati, mentioned before; and I believe the translation given by Davids and Oldenberg, 'threw their bedding out,' not to be crrect. The passive ūhaññi is found M. i. 25, 15, the past participle ūhata, c. viii. 10, 3; and another compound of the same root, ohaneti, occurs in the same signification Cariy. ii. 5, 4, where it is in parallel to uccūra-passāvam katvá, Jāt.ii. 385.

The opposite way is to shorten the vowel before a double consonant, as in the instances given above, and this can also be done

where a single consonant follows a long vowel. Frequent instances occur in the genitive plural of stems ending in u or as; as bahunnam =bahūnām, Dhp. 81, pitunnam = pitrnām; and of numerals, as tinnam, pañcannam. But there are also a number of other words belonging to this category; as bhummi = bhūmi, 'earth,' C. xii. 2, 5; mattisambhava = mātrs°, Dh.v. 396; māiumattika = mātrimātrika, Suttavibh. i. 16; unhissa=ushnīsha, 'dıadem,' Bv. p.68, note; vanibbaka=vanīpaka (which is found Cariy. i. 4, 5), 'beggar,' with change of p to bb; niddha = nīda 'nest,' from ni + sad, (comp. Hem. i. 106, Weber Indische Streifen ii. 141, Ascoli 284); sutta = syūta, 'sewn'; daţtha = daţhā, 'jaw,' Mil. 150; abbahati =  $\bar{a}$ +bṛh, 'to take down,' and its causative abbāheti, 'to pluck,' M. vi. 20, 2, C. vii. 4,5; jannu =  $j\bar{a}$ nu, 'knee,' Mahāparinibb. 69; avassyim for avāsyim (comm. vāsam kappesim), 'I lived, Jāt. ii. 80. Syllables ending with y are especially often treated in this way; as abhibhuyya = abhibhūya, Dh. v. 328; bhiyyo =  $bh\bar{i}yo$ for bhūvas, mentioned above; jivyati = jīyati, 'to decay,' Dh. 179, and the suffix  $iyya = \overline{i}ya$ .

The same transformations we have hitherto mentioned can also take place in syllables which conmtain an e or an o, with the only difference that these diphthongs always remain as they are; they are considered long before a single consonant and short before a group, as stated by the grammarian Moggliana (Alwis, Introduction, p. xvii. note, Catal. 41, 184). Generally, however, the syllable conforms to the condition, according with the etymology of a word. The following are exceptions, where the simple consonant stands for the double: vetheti = veshtayati, 'to surround'; sekha = çaiksha, 'a disciple;' apekhā and apekkhā 'desire,' = apekshā, upekhā, and upekkhā, 'equanimity;' vimokha = vimoksha, 'release.' Y is always doubled after e, as in sevyo = creyas, 'better;' maccudheyya = mrtyudheya, 'death:' the only exception is keyūra 'bracelet,' Ab. 287, which generally becomes kāyūra (see above). V after o is only doubled in yobbana=yauvana, 'youth.' After the prefix o, contracted from ava, a double consonant formed by assimilation aways remains, as in abbocchinna = avyavacchnna, 'unbroken,' Mil. 72; okkhitta = avakshipta, 'cast down,' Pāt. 20, 21; and even a simple consonant is often doubled, as in ossajjati = avssrj 'to give up; 'ossakkamāna = avasarpamāna, 'scattered,' Jāt. i. I39; abbhokkirana =abhyavakirana, 'covering,' with change of o to u, abbhukkirati. Jāt. ii. 311.

The cases of change fo quantity are by no means yet exhausted by the rules and examples given above. We have numerous instances where the change is due entirely to the metre, and others again where

no reason is visible. We will try in the sequel to keep separate as much as possible these two cases, and mention those instances which are supported by the Prākrt dialects.

The roots terminating in  $\bar{a}$ , as  $j\tilde{n}\tilde{a}$ ,  $d\tilde{a}$ ,  $sth\tilde{a}$ , almost regularly shorten the vowel in composition, and in derived forms, as, e.g.  $pa\tilde{n}\tilde{n}ac\tilde{a} = prai\tilde{n}vant$ , 'wise,' always written with  $\tilde{a}$  except in a passage of the Culakammavibhangasutta, quoted by Gogerly, Ev. 31. From stha we have patthapeti, 'to bring forward.' The same occurs in samkhata = samkhyāta, Dh. v. 70, where, however, it might also be shortened by a confusion with samkhata = samskrta.  $\bar{A}$  in the middle of a root is shortened in gahati and gaheti, 'to dive,' = gāh, and its compositions ogahi, Mah. 152; ogaha, Jāt. iii, 289; vigayhati and vigahāpeti. Suffixes with long vowels are very often shortened, as, e.g., agahitd=agrhita, 'seized,' Dh. 107; appatita = apratīta, displeaded; Pāt. 4,5; sadevika = sadevīka, 'accompanied by his queen,' Mah. 205; vipaccanika = vipratyanīka, 'hostile,' Grimblot 1; paccanika Cariy. ii. 8, 4; ahirika = ahrīka, 'shameless,' Dh. 44; sāluka=çālūka, 'the root of the waterlily, M. vi. 35, 6. Especially the suffix iya is almost regularly shortened, as in pāniya=pānīya, 'water,' M. i. 26, 4; sakiya = svakīya, 'own;' apādāniya = upādānīya, 'sensual,' in a passage of the Samyuttaka Nikāya quoted by Oldenberg, Buddha 435; pātidesaniya = pratideçanīya, 'a class of priestly sins requiring confession,' constantly written so in the Pātimokkha and Suttavibhanga; gariya=garīyas, 'heavier,' Dh. 245, etc. Shortening by svarabhati is very frequent in Pāli as in bhariyā= bhāryā, 'wife;' ācariya = ācārya, 'teacher;' suriya = sūrya, 'sun,' and numerous other examples.

Lengthening of vovels occurs principally, in prepositions, as in ābhidosika, 'stale', from abhidosa, evening', Suttavibh. i. 15; pātibhoga=pratibhoga, 'surety,' comp. Mahāvastu 582; pāvacana = pravacana, 'the Holy Scriptures' (the same in the language of the northern Buddhists, Mahāvastu 566); pākata=prakaṭa, 'clear, evident;' pāheti, 'to send' = prahi, from the false analogy of the aorist pāhesi; Pāyāto, from prayā, 'to depart', Jāt. i. 146; Rhys Davids, Buddhist Suttas, p. 241, note. There are, however, some other instances of lengthened vowels besides: a privativum is lengthened in āyasakya, 'disgraceful,' from a + yaças, Jāt. ii 33, 514, in paccāmitt= pratyamitra, 'enemy.' Other vowels in ālinda = alinda, 'terrace;' ājira, = ajira, 'court,' Mah. 215; pāyāsa= pāyasa, 'rice porridge,' gāvuta = gavyūti, 'a measure of length;' ummāra = udumbara, 'threshold;' sabbāvā = sarvavat, 'entire'; kharāpiṇḍa, 'lump of glass,' Dīp. 102. Lengthening

is very frequent also when a word is repeated in composition; as phalāphala = phala+phala, 'will fruits, berries;' divādivassa, 'at an unusual hour,' Ten Jāt. 16, Ch. Addenda; khaṇḍākhaṇḍaṃ, 'in pieces;' kiccākiccāni, 'all sorts of duties.'

According to the law given by Kaccayana, vii. 5, 13, that a short vowel before a double consonant is considered as a long one, we have to treat here also those cases, where a single consonant after a short vowel is doubled, and a double one simplified, because the quantity of the syllable is changed by this process. In these cases it is sometimes very difficult to distinguish what is due to the metre, and what not. A clear instance of metrical change would be appabodhati, Dh. v. 143, if Subhūti's opinion is right, that it stands for apabodhati; Weber, however, and Max Müller refer it to alpabodhati, 'parvi facere,' and Fausböll to a+ prabodhati. Subhūti's view is supported by apparājita = aparājita, 'unconquered,' Cariy. i. 2,2. Other instances are saparijana, 'with his attendants,' Cariy.ii 8,2; kappilāyam, Cariy. ii. 9, 2; nikkhani for nikhani, 'he buried,' Cariy. iii. 14, 4; abhinivassatha, 'he lived,' Cariy. i. 10, 3; upavassatha, ib. i. 10, 5; paddhāna, Bv. xvii. 16; uttassati= utatrasati, 'he trembles.' Cariy. iii. 13,4 (participle uttrassa, M. x 2. 16); suppatha, Ab. 193; kummiga = kumrga, Mil. 346; paggharati, 'to ooze,' Dh. 81; abhiammayo, Bv. vi. 3; paribbasāna = parivasāna, 'abinding,' Fausböll, S.N. 152. The following are instances from prose texts where the doubling cannot be ascribed to metrical influence. patikkūla=pratikūla, 'contrary;' jātassara=jātasara, 'a natural pond;' sakkāya = svakāya, 'individuality;' anuddayā = anudayā, 'compassion', and anuddayatā, Sattavibh. i.247; vibbheda=vibheda, 'division,' Jāt. i. 212; *ummā*=umā, 'flax,' Mil. 118; *cheppā*=çepa, 'tail,' M.v.9,1; cikkhalla = cikhalaya, 'mud,' M. vii. 1, 1; niggahīta = nigrhīta, 'restrained,' okkassa = avakrshya 'having dragged away,' Mahāparinibb. 3; upakkilesa = upakleça, 'sin;' upassatha = upasṛshṭa, 'oppressed,' Jāt. i. 61; vikkhāyitaka from vi+khād, comp. Kern, Buddhism, 402; pāt iekka = pratyeka, 'individual' (regular form pacceka); kallahāra = kahlāra, 'the white water-lily;' mukkhara = mukhara, 'noisy,' Minayeff, Pāt. 59; vissajjeti, from vi+srj, 'to give away,' and avissajjiya, avissajjika, C. vi. 15, 2, M. viii. 27, 5 (but visajja in a metrical passage Mahāparinibb. 17), and avissatthaka, Jāt.; i.434.

Compared with these instances of doubling a consonant, the instances of the opposite are but few, and they are nearly all to be ascribed to metrical influence. So, we have dukha instead of

dukkha=duḥkha, 'sorrow,' Dh. v 83, puṭha instead of puṭṭha=pushta, 'fed,' Dh. v. 218; kauṇkā=karṇikā, 'an ear ornament,' Ab. 574. In prose texts I have only found kaṇikāra=karṇikāra, 'the tree Pterospernum acerifolium,' Jāt. ii 25 and bhadanta, also, written bhaddanta=bhadrānta, 'a venerable man, a Buddhist priest.'

### 6. Nasal Vowels

The anusvāra or niggahīta can stand before every consonant, but before and explosive sound it may also migrate into the nasal of the corresponding class. So you may write kumkuma or kunkuma, samcarati or sañcarati, samdāsa or sandāsa tamdita or tandita, kambala or kambala. In the first instance, however, before a guttural it is usual to transcribe the nasal by a simple n without any diacritical sign. Before h the anusvāra can be changed into the palatal of cerebral nasal, as pañha=praçna, 'question,' but panhi=priçni, 'variegated;' in both instances the origin of the group is the same, viz., from cn, but the usage has been fixed in different ways. From pañha is derived apannaka for apanhaka, 'certain,' always spelt with the cerebral goup. Paripanhati is spelt with the cerebral in Minayeff's Pātimokkha, pp. 17, 92; but in the corresponding passage of the Suttavibh. ii. 141, we have have paripañhati, which I consider to be more correct. Prāk. panha, Hem. ii. 75. In the same way we have tanhā=tṛshṇā, 'thirst,' sanha = çlakshna; but its derivative, spelt sanhita, Mah. 104. Osanhati, at C. v. 2,3, is also spelt with the cerebral, and I believe this to be the correct spelling, as the n is already found in Sanskrit. I cannot account for the change of  $\tilde{n}$  to n in apannattika = aprajnaptika, 'not existing,' in ānā=ājñā, 'order,' ānāpeti, ānāpana, etc.

Before a y the anusvāra can remain, or the whole group can migrate into  $\tilde{n}\tilde{n}$ , as e.g. saṃyoga or saññoga. Before r, s, v it is always retained. Before l the anusvāra is always assimilated, as in sallāpa = saṃlāpa, 'conversation.' Before a vowel it becomes m in poetry when a short syllable is required, the nasal vowels being invariably considered as long.

The grammarian Vanaratana, according to Trenckner, Pāli Misc. 80, remarks that h may be joined to any one of the five nasals; for h with the guttural nasal I can adduce no example, but for h with the dental nasal we have cinha=cihna, 'mark,' pubbanha, Mil. 17; majjhanha=madhyāhna, 'midday,' Ab. 767;  $s\bar{a}yanha=s\bar{a}y\bar{a}hna$ , 'evening', seems to be always spelt with the cerebral.

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The nasal vowel is sometimes replaced by a long one, as in sīha=siṃha, 'a lion;' vīsati=viṃsati, 'twenty;' sanḍāsa=samdamça, 'tongs;' dāṭhā=daṃshṭrā, 'jaw.' This happens often in the preposition saṃ when it is followed by r, as in sārāga=saṃrāga, 'passion;' sārambha=saṃrambha, 'clamour;' sārambhī, 'clamorous,' Jāt. iii. 259; sārāṇīyo Mahāpain. 2, is according to Senart's explanation, p. 599=saṃrañjñīya for saṃrañjanīya and=sārāyanīta of the northern Buddhists, which etymology is confirmed by the passage Lalitavistara, p. 530, where we read sammodauīḥ saṃrañjanīḥ kathāḥ krtvā, corresponding to the Pāli sammodanīyaṃ kathaṁ sārānīyaṃ vītisāretvā, comp. also Vinaya texts, ii. 364. Sārdhaṃ loses its anudvāra in the compound saddhivihārika, 'fellow peiest,' and also in the simple word in a passage of Buddhaghosa quoted C. 318.

The opposite process is development of an unorganic anusvāra out of an explosive consonant. This process has takan very large dimensions in the Sinhalese down from the 10th or 11th century (see my Contributions to Sinhalese Grammar, pp. 12, 13), but we find the beginning of it already in Pali, and it is not merely the corrupt spelling of the Simhalese writers as Childers believed (see Childers, s.v. nagaram). Moreover, a form nangaram occurs in the Sanskrit of the northern Buddhists, Mahābastu pp.83,440, so that we have no reason to doubt its correctness in Pāli. Nānga for nāga, 'snake,' Dh. 102, occurs again in the introduction to the Samanta pāsādikā, and seems to be also a correct form. Other instances are sanantana=sanātana, 'perpetual,' which Childers explains as sanam +tana; piñja = piccha, 'wing,' (piccha occurs at M.v. 2, 3); mahimsa = mahisha, 'buffalo,' Cariy. ii. 5, 1, and mahimsakamandala, 'the Andhra country;' the insertion is especially frequent in syllables which originally contain an r;  $sammuñjan\bar{i} = sammarjan\bar{i}$ , 'a broom' (also written  $sammujjan\bar{i}$ , Jat, i. 161); samuarī = çarvarī, 'the night; dandha = drdha, 'slow' according to Thenckner, Pāli Misc. p. 65, and its derivatives dandhati, Jāt.i. 345, Feer Etudes Bouddhigues 133, Cariy. viii. 13 (dantayi is a mistake); dandhāvanā, Mil. 59, 105; dandhavitattam, Mil. 115; mankato =matkṛte, Mil. 384; mankulā = matkuṇa, 'bug,' Pāt. 91, comp. Skt. mańkhuna;  $a\tilde{n}c = arc$ , 'to worship' according to Weber (we find, however, accayissam, Dath. v. 17, and accita, Ab. 750); another anc occurs, Jāt. i.417, to explain udancanī; sando = sādra, 'thick, coarse;' singāla = çṛgāla, 'jackal'; vitamsā = vitastā, Mil.114; nantaka = naktaka or laktaka, 'dirty cloth,' Jāt. iii. 22, which Tren-ckner, Pāli Misc. 81, believes to be borrowed from an aboriginal language: the

regular from *lattaka* occurs Dhp. 190. Some participles must be mentioned here of verbs that have *n* in the present, as *randha* = raddha, from *randheti*, 'to destriy,' Mil. 107, Jāt. 537 v. 108, 538, v. 85; *bandha* = baddha, 'bound,' Kacc. 130, M. viii. 12, 1, where Buddhaghosa has *baddham*; *pilandha* = pinaddha, from *pilandhati*, 'to rear,' Mil. 337. The aorist *agañchi*, and the future *gañchati* or *gañchīti*, from gacchati, 'to go,' occur according to Trenckner, Pāli Misc. pp. 71-74, only in Sinhalese manuscripts, while the Burmese almost constantly write *agacchi*; besides, in the compound *adhigacchati* the aorist does not take the nasal, and in the plural before *-iṃsa*, *-ittha*, *-imha*, the form *gañchi* is very rarely used. I believe these forms to have followed the false analogy of *adañchi* from *daṃç*, 'to bite,' Jāt. 441 v. 3, and of *āhañchi*, M. i. 6, 8, *hañchema*, Jāt. ii. 418, from *han*, 'to strike,' which both have the nasal in the root.

We often find a nasal added at the end of a word, as in sakkaccam= satkrtya, 'respectfully;' kudācanam=kudā+cana, 'ever;' aññadatthum = anyad + astu, 'only, exclusively;' in a passage of the Samyuttaka Nikāva, quoted by Trenckner, P.M.67, tatthañca=tatra ca, Mah. 5. In two instances we find n instead of the anusvāra: cirann āyati, Kacc. 26, and satānan esa dhamma for satānam, Jayaddisa Jātaka. Besides, at the of the first part of compounds, not only in such cases where it is be considered as an accusative, as in atalamphassa=atalasparça, 'not touching the bottom; 'sabbañ-jaha, 'leaving everything;' such instances are viralanjana = virala + jana, 'thinly peopled,' Att. 204; and hantama = andha+tamas, 'thick darkness;' attantapa, 'self-tormenting,' Childers s.v. puggala; ganamgana, 'with many linings,' M.v. 1,30; rathandhuri = ratha+dhur, 'the yoke of the carriage,' Saddhammopāyana v. 468; kabalimkāra = kabalīkāra (the writing of the Burmese MSS.) 'material food,' Gr. 43; jayampatī 'husband and wife,' most probabling for jāyāpati and also tudampati, would go back to the same form if Childers' etymology is right; comp. Kuhn's Lit. Bl., no. 1, art. 2. The contracted form jampatī occurs Dāth. iv. 25.

### 7. Vowels Added or Dropped

A vowel in the middle of a word been elided in agga for  $agra = ag\bar{a}ra$ , 'house', only used in compounds;  $dh\bar{\iota}t\bar{\iota}a = duhit\bar{\iota}a$ , 'daughter'; jaggati for jagarati, 'to watch;' and in the termination mhe for mahe, of the 1st person pl.,  $\bar{\iota}atmanepadam$ .

A vowel at the beginning is dropped in lankāna=alankāra, 'ornament, decoration,' Dīp, 47; numati=anumati, 'consent,' Dīp. 35;

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valañjeti = avalañjeti, 'to use to spend' (the full form occurs Jāt. i. 111, Suttavibh. ii. 266); pināsa, 'catarrh' = apināsa, Skt. pīnasa; parajjhati for aparajj-hati, from rādh, 'to be injured;' pavana = upavana, 'side of a mountain,' according to Subhūti, Jat. 28, and perhaps vekha = avekshā, 'care,' Mahāparin. 25, Rhys David's Buddhist Suttas p. 37.

About pi for api, ti for iti, va for iva and ava, we shall speak hereafter in the chapter on Sandhi.

The only instance of a vowel added in the beginning of a word is  $itth\bar{i} = str\bar{i}$  (istr $\bar{i}$  in the Gathas of the nothern Buddhists), an evolution which bears the closest similarity to that in the Romance languages, as, e.g. ispirito = spiritus.

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- (1) Gutturals—A Sanskrit guttural is represented by a palatel in cunda = kunda, 'turner' Mil. 331;  $i\bar{n}j$ . and its compound  $sammi\bar{n}j$  were also believed to come under this rule by Fansböll, Dhp.273 and Weber, Ind. Stud. iii. 147, Ind. Strifen i. 131, iii. 397, who identified it with Skt.  $i\bar{n}g$ ; other etymologies of there difficult words have been suggested since, of which I will only mention two that of Senart, Mahāvastu p. 418, who believes  $sammi\bar{n}j$  to stand for samvrinj, and that of Oldenberg, K.Z. xxv. 324, who derives it from anc. Against Senart there is only this to say, that the root vrnj occurs in the form vinn, Suttavibh. ii. 264, in the from vinn, Suttavibh. ii. 127 (comp. Trenckner, P.M. 59); and Oldenberg leaves the double m entirely unexplained. The form saminjayati occurs also in the Brhad nanyaka Upanişad, 6, 4, 23; and perhaps after all this may be right etymology (Boehtlingk-Roth. s.v. sam+ing).
- (2) Palatals—A. Skt. palatal is represented by a guttural in bhisakka=bhishaj, 'physician' (but Satabhisajā=çatabhishaj, Ab. 60); milakkha=mleccha for milaska, K.Z. xxv. 327; pabhanguna= prabhañjana, 'destruction.' Of much greater importance than this is the change of palatals to dentals, very frequent not only in Pāli but throughout the Indian vernaculars. Especially the Sinhalese, down from the 9th century, is fond of this change, of which I have given numerous examples in my Contributions to Sinhalese Grammar, pp. 17, 18. An instance of this change in Skt. is samsṛdbhis, from saṃsṛj, T.B. i. 8, 1, 1, Çat. B. v. 4, 5.3. As in Sinhalese throughout, so we find the Pāli already a limited number of instances where j passes into d, and c to s seldom into t: digucchati and jigucchati=jugupsati, 'to despise;'

tudampatī compared with jayampatī and jampatī, Dāth. iv. 25, see Childers s v.; digacchā and iighacchā = jighatsā, 'hunger,' Pischle Beiter. iii. 249; pariccadi from pariccajati=parityaj, 'to forsaka.' So s for c or ch in ussita=ucchrta, 'lofty', Dīp. 10, Suttavibh. i. 79 (ucchita, Ab. 708), and its compound samussita in a passage of Papañca Sūdanī Alwis. Intr. 79; another samussita = samuccita, 'accumulated', occurs at Dh. v. 147; ussaya, Suttavibh. ii. 224, must mean 'dispute, quarrel,' but I am not sure about its etymology; ñassati, various reading, Ang.i.5,5, is explained by Morris as being the present of ussita = ucchrta but I doubt very much the correctness of this identification; ussa=ucca, 'distinguished', Fausböll, S.N. 164: t for c in tikicchā=cikitsā, 'medicine;' uttittha for ucchittha=ud+cishta, 'left over,' M. i.24, 1, Mil. 213, 214, see also Vinaya texts i. 152; vitacchikā=vicarcikā, 'scabies.' In upacikā, 'white ant' = Skt. upadīkā, the Pāli seems to have retained the original palatal, while the Skt. has turned it into the dental: see Trenckner, P.M. 62. In kasina=krtsna, 'entire,' and dosina =jyautsna, 'clear, spotless,' I believe the t to be dropped first. and then consonants to have been separated by svarabhakti (see above, and Ascoli, Krit. Stud. 249).

(3) Cerebrals-As in all Indian vernaculars cerebralization has been carried in Pali much further than in Sanskrit, although not so far as in Sinhalese and some other Prākṛts. The opposite process, viz. change of a Skt. cerebral to a dental in Pali is very rare: cetaka= cețaka, 'servant,' Suttavibh. ii. 66, Cariy.ii 4,7; kottuka=kroshțā, 'jackal,' Mil. 23, 118 (kotthuka, Jāt. ii. 108); dendima = dindima, 'drum,' Jāt. i. 355; dindima, Dīp. 86, Bv.i.32, may either be the same or=dundubhi, 'kettle-drum;' dindibha=tittibha, 'name of a bird of a bird,' Ab. 643; kubbāna=kurvāṇa, 'doing.' In khānu=sthānu 'the stump of a tree,' I believe the spelling with the dental to be the correct one, as we have it, Dh. 107, Mil. 34, and in khānuka, Jāt.i.483; as for khanati, which Trenckner, Pāli Misc. 58, 59, believes to have influenced khānu, it is also spelt with the dental in several instances, and where it is spelt with the cerebral this can be easily accounted for by assuming a confusion with the root, 'kshan.' Ghāna = ghrāna, 'the nose,' is always spelt with the dental; gona, 'bullock,' spelt;' gona, Jat. ii. 300, is derived from the root gur, 'to growl; gonaka most probably = gaunika, 'a woollen coverlet,' Gr. 9 M. v. 10.4 (comp. Pischel, Beitr. iii. 236). Besides, we have the dental instead of the cerbral in the terminations of the aorist—ittho=ishtas, —ittha=ishta.

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The Pāli has one sound belonging to the cerebral class which does not exist in classical Sanskrit, but only in the dialect of the Vedas, viz. the cerebral l, distinguished from the dental by a dot under line. It is very difficult to give exact rules for use of this l as the manuscripts are even less consistent in this respect than with regard with regard to the dental and cerebral n. Generally speaking, l or lh between two vowels represents d, dh, but we find it used promiscuously also for the dentals. I have collected a number of instances from Pāli texts which will illustrate the use of these sounds: ālulati Pāt. xvi., but ālulati Jāt. i. 25, ii. 9, ālolāpeti, Alw. i. bubbula=budbuda, 'a bubble,' Jāt. i.68, bubbulaka, Samanta Pāsād. 336, but bubbula, Mah. 175, 213, Att. 10, 190, bubbulaka, Dh. 31, 336; palāsa, 'leaf,' Dh. 42, but palāsa, 'pride,' Mil. 289; kabala, 'mouthful,' Pāt. 22, Mah, 121, but kabala, Jāt.i. 68, Mil. 180, kabalikā, M vi. 14, 5; kukkula, 'hot ashes,' Ab. 36, but kukkula, Jāt. i. 73, 423, māla, 'pavilion,' M.ii. 5,9, but māla, Gr., 47; cola, 'cloth,' Pāt. 86, Mah. 219, colaka, C. v.9,4, but cala, Mil. 74, colaka, M.i.25, 15, Mil. 53; celukkhepa, 'waving a cloth,' Mah.99, 113, but celukkhepa, Samanta Pāsād. 336; gālha, 'deep,' Jāt. ii. 57, but gālha, Jāt. i. 155, gālhaka, Jāt. i. 265; gādha also is found in a later text, Saddhammopāyana, v. 394.

(4) Dentals—The change of a dental to a cerebral is generally caused by a preceding r in original form of the word; for instance, pajjinna=parjanya, Man. 129 (pajjunna, Jāt. i. 331), 'cloud,' kat ākata, = krtākrita, 'done and undone,' M.vi. 14, 7, but katākata, Dh.v. 50; sakkata = samskrta, 'Samskrit,' in a passage of Buddhaghosa quoted C. 322, but sakkata, Kacc. 10; pāsanda, 'heretical,' most probably = pārshadya, Kern, Açoka, 58. In a great many instances, however, an r has no effect on a following dental as in mudsikā=mrdhvika, M. vi. 35, 6; in attha=artha, 'cause,' also spelt attha; in the verb uattali, 'to begin,'=vartate (vattati means 'to be right,' see Childers, s.v.); pati and pati=prati (see Childers, s.v.); sithila, 'loose,' and sathila, 'crafty,' = both from crath (comp. Hem. i. 89), sāthalika, Ang. ii. 5,3. The n of the preposition ni preceded by pa = pra is always changed into n, as, e.g., panidahati = pranidhā; after pari it is generally changed, as in parināyaka, Mil. 38, Jāt. ii. 393; we find, however, also parināyaka, Mah. 63, Mahāparin. 5, and parinaya = parinaya, 'marriage,' Ab. 318, parinitthanti, S.P. 332. On the other hand we have also instances where the change of a dental into a cerebral is not due to a preceding r, as in  $s\bar{u}n\bar{a}$ , =  $c\bar{u}n\bar{a}$ , 'a slaughter-house,' also spelt  $s\bar{u}n\bar{a}$ , M.vi. 10, 2, Suttavibh. i. 59; jannu = jānu, 'knee,' Mahāparin. 69, Ab. 742; sakuņa = çakuna,'

'a bird;' sakkunātı = çaknoti, 'to be able;' sanım, sanıkam, = çanıs, 'slowly' or 'quickly;' sobhana = cobhana, 'resplendent;' dinna, past participle of da, 'to give', in paryadinna, Mil. 289; kavittha and kapit tha. Jāt. i. 237. = kapittha, 'the tree Feronia Elephantum,' kapithana = kapītana, 'the tree Thespesia Populneoides,' Suttavibh. ii. 35; patisallāna = pratisamlayana, 'seclusion,' spelt with the dental, Dīp. 63, Jāt. ii.77 and Mil. 138, v.l.; patisalgna = pratismlīna, 'secluded,' spelt with the dental, M.ii.1, 2. vipāteti = vipāteti, 'to crush,' C.v.11,1, if the reading introduced by Oldenberg is correct, but perhaps we ought to stick to vipphādetuā, given by the manuscripts, and derive this from form visphur with change of r to d, as in some other instances given below, p. 23. Vibhītala = Vibhītaka, 'beleric myrobalan,' Ab. 567, Jāt.ii.161, spelt with the dental, M. vi. 6, Att. 213; vidaddhatā = vidagdhatā, 'gallantry,' Att. 199; unnata=unnata, 'high,' Ab. 289, unnametave, Fausb. S.N.xi., unnati, ib. 158; sanati = svand, 'to sound', Mil. 414, but, sanita, Ab. 747, sanantā, Fausb. S.N. 131. In some cases the change of the dental to the cerebral is due to the influence of a sibilant, as in most derivatives of the root sthā, 'to stand,' e.g., thāmo = sthāman or sthāmas, 'strength,' Gr. 121, v.l., Kacc. 315 Sutta Nipāta. 34 ap. Senart. Mahāvastu, 628, spelt also thāmo several times (comp. Hem. iv. 267), thāna = sthāna 'standing', thapeti, caus., etc.; exceptions are indapatta = indraprastha, 'name of a town;' majjhatta = madhyastha 'impartial,' where the aspiration dropped besides, and sanhāgāra = samsthā+agāra, 'a royal rest-house,' M. vi. 31, 1 Mahāparin. 60. In derivations of the root vas, 'to dwell,' we find the cerebral and the dental used promiscuously. The past parts is vuttha or suttha, Kacc. 291; in composition adhivattha, Jāt.i. 99, adhivuttha, Mahāper. 23, upavut tha, Cariy. ii. 3,2, parivuttha, Pat. 6: for the absolutive parivatthabba in the same line we should adopt the reading give in the foot-note. The roots dah 'to burn,' and das 'to bite,' take the cerebral d in those form where there is no cerebral in the second syllable; there are; however, exceptions to this, as dayheyya, Mil. 84, Att. 192, 208, Dath. iii. 10, upadamseti, Suttavibh. ii. 309; in some compositions of dah the d is changed to *l*, as in vilayhase (v. 1. vilayhase and vidayhase), Jāt. ii. 220, ālāhana, 'a cemetery,' parilāha, 'fever, pain.'

D is often changed to l, as in  $\bar{a}$ limpana, 'light' =  $\bar{a}$ dipana, Mil. 43;  $\bar{a}$ limpāpeti, 'to kindle,' Suttavibh. i. 85; dohala = dauhṛda, 'the longing of a pregnant woman,' and  $dohalin\bar{i}$ , Jāt. ii. 395, Kacc. 203, bila=vida, 'part, bit;' in  $bilas\bar{a}$ , Kacc. 91, bilaso, Kh. 30, ulu=udu, 'lunar mansion,'  $\bar{a}$ vel $\bar{a}=\bar{a}$ pīda, Prāk.  $\bar{a}$ mela, Hem. i. 105, 202, 234;

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koviļāra=kovidāra, 'Bauhinia variegata;' uļāra = udāra, 'noble.' Dh. passes into l in gharagolikā = gṛhagodhikā, 'lizard.' N is changed to l in ela = enas, 'fault,' nela, 'faultless,' from the same, not as Trenckner suggests, from nariya (Childers, add. s. v.) : comp. anelaka, Senart, Mahāvastu 572, pilandhati=pinah, 'to wear,' piļandhitvā, Jāt. i. 100.

Change of d to y, forming an analogy to the ya-çruti of the Jainaprākṛt occurs in goyāna = godāna, in Aparagoyāna, 'name of one of the Mahādīpas', sāyati 'to taste,' = svādate, khāyita = khādita, 'eaten', and kāyitabba, C. v. 34, vikkhāyitaka, 'one of the Asubha-kammaṭṭhānas,' Kern, Buddhism, 402. Avāhayi, Jāt. ii. 354, must be derived from the root had, which we have in ohadāmase of the following verse.

I here add those cases where t is changed to t and t to t without being able to decide whether we have to adopt an intermediate from t, t or not: t alavi = t atavi, 'name of a city in India;' t alavika = t atavika,' 'dwelling in forests;' t akkhala = t kakkhata, 'hard, solid,' t Prāk, kakkhada, Pischel, Beitr. iii. 251 (t akkata, Mah. 57); t khela = t kheta, 'saliva,' in t khelāpaka, C. vii. 3, 1 = t khetātmaka according to Kern, Buddhism, 180; t kulanka = t kuṭanka, 'roof,' in kulankapādaka, C. vi. 3, 4 (v. 1. kulunkap'); t palaccara = t paṭaccara, 'old clothes.'

(5) Labialsa—P is changed to m in sumanta = supanta, 'sleeping,' Mil. 368; dhūmāyati = dhūpāyati, 'to fumigate,' Jāt. i. 360, Samanta Pāsād. 315, Dīp. 83. Bh is changed to m in dindima = dundubhi, 'a drum'; m is changed to v in vīnams = mimāms, Kacc. 243.

## (6) Half-vowels:

(a) Y is often changed to v, as in  $k\bar{v}u$ =kiyant, 'how much;' tivaṅgika=tryaṅgika, 'having three angas,' Saddhammop. v. 65; tivaṅgula=tryaṅgula, 'triangular', Samanta Pāsād. 336; kaṇḍuvati=kaṇūyati, 'to scratch,' Suttavibh. i.117; migava=mṛgayā, 'hunting,' M.x. 2,15; navutta=nayuta, 'a large number,' Dh.143; sampavaṅka=samparyaṅka, 'friend,' Mahāparinibb. 6, Feer, Etudes Bouddh. 51, Weber, Indische Streifen, iii. 397; paṭiviṃsa or paṭivisa, M. vii.11,1, C. xii.1,1, Suttavibh.i. 60=pratyaṃça, 'portion,' with samprasāraṇa, vivina=vijana, 'lonely,' Cariy. i.1,3; pavecchati, 'to give,' Jāt. i. 28, Mil. 375, is identified with some hesitation to payacchati by Trenckner, Pāli Mise. 61. Y is changed to b in pubba=pūya, 'pus, matter;' jalābu=jarāu, 'the womb;' niddujjhati=niryudh, 'to struggle,' C.i.13,2, Suttavibh.i.180, partic. nibbuddha, Gr. 9, Mil. 232; to bh in sarabhū=sarayu, 'name of a river.'

Y is changed to r in kulira=kuliya, 'mattress,' according to Buddhaghosa, Suttavibh. ii, 40, 357, Pāt. 86, spelt kulira, C. vi.2, 3; vedhavera=vaidhaveya, 'the son of a widow;' sāmaņera=çrāmaņeya, 'a novice,' Kacc. 188; bāhira=bāhya, 'external' (bāhiya, Jāt. i. 422); antrāyati=antarāyati, 'to run into danger.' It is changed to l in latthi=yashti, 'stick,' jotalati=jyotayati, 'to lighten,' Kacc. 234, upakkamālati=upakramāyati, 'to manoeuvre,' ib.235; to h in nahuta=nayuta, 'a vast number,' ranañjaha=ranañjaya, 'victorious in the battle,' Mil. 21, Trenckner, Pāli Misc. 83, sahampti=svayampati, 'epithet of Brahmā,' M.i.5,5, Vinaya Texts, i. 86, upatṭhāka=upaṭṭhāyaka, C. i.18, 5. Y is changed to j (as in Prākṛt, see E.M. Beiträge zur Gramm. d. Jainaprāk. p. 31) in jantāghara, jantaggha= yantragṛba, 'bath-room,' Oldenberg K.Z. xxv. 325.

(b) V is changed to y in dāya=dāva, 'forest' dāyapāla, M. x. 4, 2, comp. Senart, Mahāvastu, 633, lāyati, 'to reap,' Jāt. i. 215, and lāyeti, Suttavibh. i. 64=lāveti, chāya = çāva, 'the young of an animal,' Ten Jāt. ii. (generally chāpa), caccara = catvara, 'a courtyard,' through an intermediate catyara. V is changed to b in paribbasāna, 'abiding,' from vas, Fausb. S.N. xii. 152; vārabāṇa=vāravāṇa, 'a woman's jacket;' sibbana, 'sewing,'=sīvana, and sibbinī, 'a needle,' M. viii. 1, 18, comp. Prāk. sivvinī, Pischel Beitr. iii. 260 (most probably from false analogy of sibbati=sīvyate, 'to sew'); subbaco=suvacas, 'compliant;' subbutthi=suvṛshṭi, 'abundance of rain;' thabaka=stavaka, 'a cluster of blossoms;' balibadda=balivarda, 'an ox;' sambāhati=saṃvāh, 'to shampoo,'Jāt. i. 293, Suttavibh. i. 83; sāribā=çārivā 'name of a plant;' kabala=kavala, 'mouthful;' kabaļikā=kavalikā, 'compress,' M. vi. 14, 5.

V is hardened to p in lāpa=lāva, 'quail,' Jāt. ii. 59; pajāpati= prajāvatī 'wife;' pettāpiya=pitṛvya, 'cousim,' Trenckner, Pāli Misc. 62; palāpa=palāva, 'chaff;' chāpa=çāva, 'the young of an animal;' opilāpeti, 'to sink,' M. iv. 1,3, vi. 26,6, according to Trenckner, Pāli Misc. 63, from plu (Childers, add derives it from pīd); avāpurati, 'to open' apāuṇamti amatassa dvāraṃ, It. 84, v. 2, and pāpurati or pārupati, 'to dress,' from var; apadāna=avadāna, 'legend;' and also sapadānam, 'regularly,' (Trenckner, Mil. 428, derives it from sapadi+ ayana, which I do not quite understand) = sa+avadāna, according to Senart, Mahāvastu, 595; supāna, 'dog,' Mil. 147; dhopana=dhovana, 'cleaning,' Jāt. ii. 117; sipāṭikā=çivāṭkā, M.vi. 7. C.v. 11, 2,27,3 (in the two latter passages, however, it seems to have another meaning—Buddhaghosa explains it by kosaka, 'a sheath').

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### (7) Liquids:

The change of r to l is frequent enough in Pāli. although not quite so frequent as in some other Indian dialects, especially the Magadhi of the inscriptions. Instances are ludda=rudra, 'dreadful,' Trenckner, Pāli Misc. 59; lujjati=ruj, 'to break,' M. viii. 21,1 (Dhm. vināse), and its compound palujiati, M.iii. 5, 9, Mahāparinibb. 40; paloka, 'the necessity of dissolution,' ib.; sajjulasa=sarijarasa, 'resin,' M.vi.7; elāluka=ervāruka, 'cucumber,' Jāt. i. 205, 312; elanda, 'Ricinus,' Assalāyanasutta 35; salala=sarala 'a flower,' Jāt.i. 13; puthuloma= prthuroman, 'a fish;' the preposition pari in palibodha, 'hindrance,' which according to Childers, is the result of a confusion between parirodha and paribādha; palibuddhati 'to hinder,' paligha = paligha, 'an iron beam;' paligedhā, a compound of gedha, 'greed,' Ang. ii. 4, 7 (it has nothing to do with the Sinhalese Pali, 'reverend,' in the Tissamahāma inscription); palipanna=paripanna, 'covered,' M. viii. 26,1; paligunțima 'entangled' (also spelt palikundhita, Jāt. ii. 92); pāligunthima, 'laced,' M. v. 2,3; palivetheti=parivesht, 'to wrap up,' phālibhadda, Jāt.ii. 163 = pāribhadra, 'the coral tree,' Prāk. phālihadda, Hem.i.232,254; sukhumāla = sukumāla, 'youthful,' by amalgation with sukhuma, Trenckner 66; agalu = aguru, 'Agallochum;' vāla = vār, 'water;' katula = katura, 'buttermilk,' M. vi. 17, 1, Sutttavibh. i.66.

R is changed to d in purindada = purandara, 'a name of Indra', also written purinda, Cariy. i. 9, 3,  $s\bar{a}randada$ , name of a yakkha, Mahāparin. 4; it is changed to y in  $s\bar{a}yan\bar{t}ya = s\bar{a}ran\bar{t}ya$ , according to Senart Mahāvastu 599 (see above, p. 15),  $m\bar{a}tya$ ,  $pety\bar{a} = m\bar{a}tr\bar{a}$ , pitrā, Jāt. 527, v. 3, 5. 528, v. 26. Trenckner, Pāli Mise. 56.

L is changed to r in  $\bar{a}kurati$ , from  $\bar{a}kula$ , 'troubled'; the Dhm. v. 94 has a vrey  $kura\ sadd\bar{a}danesu$ , which possibly may be identical with  $\bar{a}kurati$ , although it is not known from any other text; kira = kila, 'they say;'  $\bar{a}rammana = \bar{a}lambana$ , 'support,'  $ara\bar{n}jara = ali\bar{n}jara$ , 'water-jar.'

L is changed to n in nalata= lalata, 'forehead;' nangala= langala, 'plough;' nangula= langula, 'tail;' dehant= dehalt, 'threshold;' tintint, 'the tamarind tree,' comp. tintinanta, Jat, i. 243.

## (8) Sibilants:

As there is only one sibilant in Pāli, ç and sh are also represented by s. There are, however, a few exceptions to this rule: ç is represented by ch in chava=çava, 'corpse,' M. iii. 12,7, and as an adjective 'vile,'

chāpa and chāya, 'the young of an animal,' cheppā=çepa,'tail;' it is represented by d in dāka=çāka, 'pot-herb,' M. vi.35,6; 36,8.

H sometimes returns to its original medial aspirate, and this gives us Pāli forms which are older than the corresponding ones in Sanskrit: the root nah in composition with api, ava, upa, vi, gives pilandhati, onandhati; upanandhati, vinandhati; these forms show us that the original form of the root was nadh and nagh, as one would feel inclined to think from comparing the Latin necto, (see Whitney's Sanskrit Grammar, p.76.) Similar forms are agghati, 'to cast,' compared with arahati, dubbhati, 'to cheat,'=druh, Jāt. i. 267, iii. 13, 192, and the adjectives belonging to the same root, dūbhin, Jāt.ii.386, dūbaka, Jāt. i.363; adrūbhāya, 'truly, without falsehood,' M. x.2, 17; ghammati=hammati, 'to go,' Naigh. 2, 14, Prāk. hammaï, Hem. iv. 162, Hāla 694, ghañña, 'destruction,' from han; the root har is found in its older form in samghritabba v. 1. to samharitabba, M.i. 25,10 Dh. 143.

A curious change of h to s occurs in senesika = snaihika, 'oily,' M. vi. 1, 4, and golisa = goliha, 'name of a plant.'

# 9. General Remarks Referring to Consonants of Different Classes

(1) Aspiration is very frequent in Pāli with hard and soft consonants. Instances are: satthi = cakti, 'ability,' dhona = drona, 'a measure of capacity,' Dh. 43, Fausb. S. N. 58, 149; sukhumāla = sukumāra, 'youthful;' thambhakari=stambakari, 'rice;' kiñcikkha= kiñcid+ka, 'some trifle;' khalopi=karoţi, 'pot', Mil. 107, according to Trenckner, Pāli Misc. 60 (also spelt kalopi); Khandha = Skanda, 'the god Skanda,' through confusion with khandha, 'shoulder;' paccaggha=pratyagra, 'new'; phāliphulla, 'in full blossom,' Jāt.i.52, Mahāparin. 53; phālibhadda = pāribhadra, Jāt. ii. 163; phāsu, 'agreeable,' = prācu accourding to Trenckner, Pāli Misc. 8—I have derived it, following Paul Goldschmidt, from a hypothetical form smarcu (see my contrib. to Sinh. Gr. p.13, note); phāsukā=phārçuā, 'a rib,' also written pāsukā, C.X.10,1; phussa=pushya, 'name of a month,' and phussita=puspita, 'blossoming; 'phārusaka = parūsaka, 'Grewia Asiatica,' M. vi.35.6; phalu = paru, 'joint;' phallava=pallava 'sprout,' Jāt.iii.40; sankhalikā=sankalikā, 'heap,' Jāt.i.433, Suttavibh.i.105, Angp. 114, through confusing with sankhalikā, 'chain,' Senart, Mahāvastu 387; the reverse process is found in Prāk., where çrnkhala is changed to samkala, according to Hem. i. 189; valabhāmukha = vaḍabāmukha, erāpatha = airāvata, 'king of the

- Nāgas', Jāt. ii. 145=C.v.6, spelt *erapatta*, Saddhammopāyana, v. 349, *erakapatta*, Dh. 344; *āpātha*=āpāta, 'path,' Trenckner, Mil. 298, M. v. 1, 25, Samanta Pās., 300; *sunakha*, 'dog,' and *lāmakha*, 'vile,' Jāt.ii. 430, are most probably older forms, as we have the aspiration also in Prāk. suṇaho, Hem.i. 52, Pischel Beither. vi.92.
- (2) The aspiration is dropped in khudā=kshudhā, 'hunger;' khudita, 'hungry' upādisesa=updhiçesha (and with change of the position of the component parts sesopādi, Dāth. ii. 36), Oldenberg, Buddha, pp. 437, ff.; maţta=mrshta, 'polished;' abhivaţta=abhivrshta, 'wet from rain,' Mil. 176; anovatta, Jāt. i. 18; patanga = phadinga, 'flying insect;' paggava = phalgava, from phalgu, 'herb,' Jāt. ii. 105; anangana, 'free from impurity,' compared with anhas 'sin,' Jainaprāk. ananhaya (E.M. Beitr., p. 33); rajovajalla and rajojalla, Ass. S. 13, Jāt.i.390, 'dust and dirt,' rajas+jhalla, comp. Jainapr. jhalla, E.M. Beitr. 34; āvaijeti=avadhyā, 'to reflect,' Senart, Mahāvastu 377; a curious instance of dropped aspiration is kā, Jāt. ii.258=khā, 'spring,' Naigh., and perhaps we have to notice the same process in kakkāreti, 'to express disgust,' Jāt, ii. 105, Five Jāt. 29, = khat or khāt+kāreti, which, however, might be also derived, with Childers, from  $k\bar{a}t + k\bar{a}ret$ i. As in Greek, two aspirations are not allowed in two syllables following each other, and when this happens the first is dropped, as, e.g., nikkaddhati = nishrsh, 'to cast out.'
- (3) There are also instances where the aspirate drops its first part and h alone remains, as is done frequently in Sanskrit and later on in all the vernaculars. I believe, however, that a number of instances, especially those with bh, are only due to the bad writing of the Sinhalese, in whose alphabet h and bh are so easily confounded; M.i. 1, 3, four MSS. have the form have, but Buddhaghosa reads bhave which shows us clearly the etymology of the word; the same process can be observed in the form hupeyya, M.i.6,9 (according to Trenckner, Pāli Misc. p. 62, a Burmese error for the huveyya). Other instances are momuuhato from momugha, 'foolish,' Fausb. S.N. 161, ruhira = rudhira, 'blood,' Jāt.i. 274, ii. 276, Cariy.i. 9, 13, C. vii. 3,9; at Bhikkhunīpāc. 60, Minayeff, p. 108, reads ruhita, the Suttavibh. ii.316,  $r\bar{u}hita$  with the v. 1. rudhita, 'boil.' Suhita, Jāt.xx. 1,4, quoted by Minayeef, Section 43, is=Skt. suhita and not sukhita.
- (4) Softening of a hard consonant, that is to say, substitution of a sonant for a surd, is frequent enough in Pāli, as in pasada=pṛshata, 'the spotted antelope,' Cariy. iii. 13, 2; uda=uta, 'or;' ruda=ruta,

'cry,' i. 207 (comp. ii. 388, where we have the readings  $r\bar{u}da$  and  $r\bar{u}ta$ ); kalandaka=kalantaka, 'squirrel;' patigacca = patikacca (v.l.) from patikaroti, 'to provide against future events,' M. i. 31, 1, Trenckner at Mil.48, 421; vedhati = vyathayati, 'to tremble;' balasata = parasvant, 'rhinoceros,' Trenckner, P.M. 59;  $suj\bar{a} = sruc$ , 'a ladle;'  $pu\bar{n}j$  for  $pu\bar{n}ch = pronch$ , 'to wipe,' Jāt. i. 47, 318, 352. A certain instance of this change is in my opinion  $jh\bar{a}yati = ksh\bar{a}$ , 'to burn,' although Trenckner, P.M. 65, objects; I have found several new forms of this verb and its causative  $jh\bar{a}peti$  or jhapeti, in addition to those given by Childers:  $jhatv\bar{a}$ , Jāt. ii. 262 (Comn.  $kilametv\bar{a}$ ); jhatta, Mah. 146, Dh. 325; nijjhatta, Mil. 209, and most probably also  $j\bar{a}peti$ , Mil. 171, which seems to be a misprint; comp. nijhapeti, 'to injure,' in Açoka's pillar edict, on. iv. Cunningham, p. 112; Kern, Ind. Ant. v. 237; Prāk, no. jhijjai, Hem. ii. 3.

Instead of p we generally find v in this case, as in  $\bar{a}vul\bar{a} = \bar{a}p\bar{\imath}d\bar{a}$ , 'garland;' theva=stepa, 'drop,' Pischel Beitr. iii. 239, vi. 102 (Hem. ii. 125 derives it from stoka); posāvaha, 'sup-porting,' according to Childers=posāpana; vyāvaṭa=vyāpṛta, 'covered,' Trenckner, P.M. 63, and veyyāvacca, veyyāvaṭika, 'service.'

(5) The reverse process, hardening of a soft consonant, or substitution of a surd for a sonant, in pāyāka=prayāga, 'sacrifice,' Jāt. 543; ajakara=ajagara, 'the boa constrictor,' Jāt. iii. 484; kilāsu=glāsnu, 'lazy,' Suttavibh. i. 8; katupika, 'going up to the waist,' Jāt. 119, compared with katupaga, Suttavibh. ii. 340; dūrūpaka, Jāt. ii. 167; kulupika, C. x. 13, 1; samsati for samsadi, loc. of samsad, 'congregation,' Jāt. iii.493, 495; parisati and parisarim, loc. of parishah, Suttavibh. ii. 285; kusīta for kusīda, 'lazy,' already in the Maitrāyanī Samhitā; pipa=pıba, 'drink,' Jāt. i.459; pokkharasātaka = pushakarasādaka, 'name of a bird;' dhopana=dhovana, 'washing,' Jāt. 11. 117; laketi=lageti, 'to stick;' and lakanaka, 'anchor,' Mil.377; thaketi=sthagayati, 'to cover,' sometimes spelt thakk.°, Suttavibh. ii. 54; palikha=paligha, 'an iron beam,' Jāt. 545; chakala=chagala, 'goat,' Suttavibh.i.166; chakana= chagana, 'dung,' M. vi. 9; palikunthita=parigunthita, 'entangled,' Jāt. ii.92; pabbaja=balvaja, 'reed' (spelt babbaja, Suttavibh, i. 90); pappata=parvata, 'mountain,' I.O.C. 104; tippa for tibba=tīvra, 'sharp,' Mil. 148; tuvamtuva, 'quarrel'=dvandva, through confusion with the pronoun tvam; pāceti = pra + aj, 'to drive,' and pācana, 'a goad.' Cariv. i.1,1; sateratā=çatahradā, 'lıghtning;' jannutaggha=jānudaghna, 'knee-deep, 'Prāk. othaggha, Pāiyal.249; Yamataggi = Jamadagni, 'name of a ṛshi;' vipātikā=vipādikā, 'abscess on the foot.' The root dhā in

some derivations substitutes th, as pithīyati, 'is covered'=apidhāyate (for which the Burmese write pithīyati); upatheyya, 'cushion.' A similar process with regard to the root dhmā can be observed on santhamaṃ= sandhaman, 'blowing,' Jāt.i.122.

(6) An interchange between the different classes of mutes is not infrequent in Pāli. Instances are kipillika = pipīlika, 'an ant,' also written pipīlika, Sadhammopāyana, v. 23. pipillika, Jāt.i.202; takkola=kakkola. 'Bdellium,' Jāt.i. 291, also used as name of a country, Mil. 359, where it most probably corresponds to Skt. Karkota; jalūpikā = jalūkikā, 'a leech'; Mil. 407 originally jalauka, 'living in the water;' khajjopanaka = khadyota, 'the fire-fly,' Dh. 338, Dāth. iii., 78; gaddūhana = dadrūghna, 'a small measure of space or time,' Trenckner, P. M. 89; kalopi = karti (written khalopi, Mil. 107, Ab. 456), 'a pot'; ālupa = āluka, 'ebony,' Jāt. 446, v. 1; chiggala = chidra + la, 'hole,' Childers, s.v. tāla, pakudha = Kakudha, C. v. 8, 1. In most of these cases the reason of the change is dissimilation, as we find it also in phāsulikā = pārçukā + ika, 'a rib,' M. i. 61,1; sallalīkata çalyakīkrta, 'pierced,' Jāt. i. 180. Other instances are not quite so easy to explain, such as rumbh for rudh in sanmirumbhitvā, Jāt. i. 62, 80, 163, ii. 6 (v. 1. sannirujjhitvā), comp. Fausboll, Ten Jat 93, and sakk if this is really = sarp, as Trenckner, P. M. 60, believes; perhaps we ought to derive it from cankarm with a similar abbreviation of the reduplicated root, as in jaggati for jāgarati, but I give this merely as a hypothesis. The change of c to s would make no difficulty; the dissimilation adduced by Trenckner does not hold good for all instances, as in osakkati, ussakkati, nissakkati, visakkiya, Suttavibh. i.74, we have no p in the prepositions; comp. also Prāk. osakka, 'departed,' Pāiyal. 178. Khānu, 'the stump of a tree,' is rightly, referred to Skt. sthānu by the Prāk. grammarians Vararuci and Hemacandra, and the same change of sth to kh is also adopted for the explanation of duhkha=duhstha by Jacobi K.Z. xxv. pp. 438 ff., comp. Ascoli 236. Chambhati is derived from stambh, 'to tremble,' by Trenckner; Ascoli, p. 256, rejects this derivation, but does not suggest any other instead. From the Sanskrit of the northern Buddhists we might compare icchattam=itthattam 'existence,' Mahāvastu, 417.

## 10. Consonants Added or Dropped

A consonant is dropped in the beginning of a word in  $\bar{u}k\bar{a}$  or  $\bar{u}ka = y\bar{u}ka$ , 'louse,' Prāk.  $\bar{u}k\bar{a}$ , Pischel Beitr. iii. 241.

A consonant is added at the beginning of some verbal forms commencing with a u, which originates from Samprasārana, as in vuccati=ucyate, vutta=upta, 'sown,' Mil. 375; vuttha and vusita from vasati, 'to dwell;' vusīmat. 'accomplished,' Fausböll, S.N. 208. This euphonic v is not only used after vowels but also after anusvāra, and sometimes even at the beginning of a line, as in vutthahante, Mah. 30. Where the u is long, we have to assume two prepositions, as in vupasamati=vyupa°, comp. Senart, Mahāvastu, p. 441, and the same where the v is followed by o, as in vokkamati=vyutkram°, Hem.i. 116; and Pischel's remarks, avossajiṃsu, Dāṭh. iii. 15.

In the middle of a word consonants are often elided through Samprasāraņa. The syllable ya is contracted to i in mahābodhiṅgana = mahābodhyaṅgana, 'the yard of the great Bo tree,' Mah. 176; paṭiviṃsa or paṭivisa, 'portion,' = pratyaṃça; aticchatha, 'go further on,' from ati+acch; nibbijjhati=nirvyadh, 'to pierce;' saccika=satyaka, 'true,' Mil. 226; paṭtiya=pratyaya and paṭtiyāyati, 'to belive,' Jāt. i. 426 v.l.; it is contracted to e in vedhati=vyath, 'to tremble;' to i in vītivatta= vyativṛtta, 'having passed;' avīvadāta=avyavadāta, 'confused,' Fausböll, S.N. 149; vītihāra=vyatihāra, 'long step.'

The syllable  $y\bar{a}$  is contracted to  $\bar{\imath}$  in  $vis\bar{\imath}veti$  =  $viçy\bar{a}payati$ , 'to warm oneself,' sometime written visibbeti through confusion with visibbati, 'to unsew,' e.g., M. i. 20, 15, Pāt. 15, Suttavibh. ii. ll 5; from the same root  $\bar{a}s\bar{\imath}yati$  =  $\bar{a}cy\bar{a}yati$ . 'to cool oneself,' Mil. 75;  $th\bar{\imath}na$  =  $sty\bar{\imath}ns$ , 'idleness,' but patthinna, 'stiff,' M. viii. 11, 2; to i in anabhijjhita = anabhidhy $\bar{\imath}ata$ , 'not coveted,' M. viii. 12, 2, where, however, the y is also contained in the group jjh; to e in jeyyo =  $jy\bar{\imath}ayas$ , 'better;' ajjheyyaka =  $\bar{\imath}adhy\bar{\imath}ayaka$ , 'teacher,' Rasavāhin $\bar{\imath}$  19.

The syllable va is contracted to u in supina = svapna, 'sleep;' turita = tvarita, 'hasty;' kuthita, 'cooked,' from kvath, Vinaya texts, ii.57; it remains doubtful whether the root kuth, 'to be distressed,' Dhm. Mil. 250, Suttav. i.180, is the same; Dh. 155 we have  $koddhetv\bar{a}$ , 'having cooked;' to o in  $sobh\bar{a}nu = svarbh\bar{a}nu$ , 'the ascending node;' sobbha = cvabha, 'hole,' and cvabha, 'small water,' Fausböll, S.N. 131; to  $\bar{u}$  in  $cat\bar{u}ha = catu + ahan$ , 'four days,' M.i. 72,2.

The syllable  $v\bar{a}$  is contracted to u in  $latukik\bar{a}$  from latvāks, 'quail;' the syllable vi in duratta=dvirātra, 'two nights.'  $Dohaļin\bar{a}$ , which Kacc. 203 also considers as a compound of dvi, has nothing to do with this numeral.

Aya and ayi are contracted to e in a great number of causative verbs and also in a few primitives, as apasseti=apāçrayati, 'to lean,' C. vi. 20.2; neti=nayati, 'to lead;' apassena=apāçrayana; ajjhena=adhyayana, 'reading,' Jāt. iii. 114, Fausböll, S.N. 40; acceka=atyayika, 'accidental.' Aya and āya are contracted to e in paleti=palāyati, 'to flee;' to ā in Kātiyānī and Kaccānī=Kāṭyāyanī, Jāt. iii. 427; Moggallāna=Maudgalyāyana, ekānika=ekāyanika, Mil. 402; upaṭṭhāka=upaṭṭhāyaka, 'servant,' also written upaṭṭhaka with ā, Bv. ii. 70; patisallāṇa=pratisaṃlayana, 'solitude;' abbhāna=adhyayana, 'rehabilitation;' upajjha=upādhyāya, 'preceptor;' adhiñāā=adhijāāya, 'having known;' paṭsaṅkhā=pratisaṅkhyāya, 'having reflected.'

The group *ariya* is first changed to *ayira* and then contracted to *era* in ācera = ācārya, 'teacher,' Khuddasikkhā; or to īra, as in parihīrati = pariharyati; asaṃhīra = asamharya, 'unconquerable,' Dīp.31.

Iya is contracted to i in kittaka=kiyattaka, 'from kiyant,' how much;' to e in etta, ettaka=iyatta, from iyant, Mahāvastu, p. 384; in Prāk.we have kettia and ettia, Hem.ii.157.Goldschmidt, Prākritica, p. 23. Trenckner takes etta to be abridged from ettaka, Pāli Misc. 65, note 23.

Ava is contracted to o very often in compounds formed with the preposition ava, as onīta=avanīta, 'cleansed,' in the phrase onītapatta-pāṇi, frequent in the Vinaya, see Vinaya Texts i. 83; ojahati=avahā, 'to forsake,' aorist passive ohiyi, Dh. 158, ohiyyaka, 'left behind,' Suttavibh. i.208; odahati=avaḍhā, 'to deposit;' vossagga=vyavasarga, Lotus, 312, and avossajjiṃsu, Dāṭh. iii.15; ogadha=avagādha, 'belonging to;' ora=avara and avāra, 'lower' and 'hitter;' opatta=avapattra, 'without leaves,' Jāt. iii. 496; uddosita=udavasita, 'stable,' M. iii. 5, 9, C. x. 24, Suttavibh. i. 200, Ab. 213. Other instances are pahonaka= prabhava-naka, 'sufficient,' and pāhuna=prabbavana, Mah. 205; poṇa=pravaṇa, 'sloping;' opeti=āvapati, 'to put,' Trenckner, Pāli Misc. 78; osāpeti causative of āviç, 'to sling,' Jāt. i. 25. In anavaya=anavayava, 'perfectly versed in,' Mil.10, and appatissa=appatissava, Jāt. i.217, the last syllable is dropped because the word was too long.

Instead of o we also find u in the same or similar cases, as  $\bar{u}hadati = ava$  had, 'to be foul with excrement', (see above pp. 10-11);  $ujjh\bar{a}yati = avadhy\bar{a}$ , 'to be annoyed;'  $u\tilde{n}\tilde{n}\bar{a} = avaj\tilde{n}\bar{a}$ , 'contempt,' and  $u\tilde{n}\tilde{n}\bar{a}tabha$ , Feer, Et. Bouddh. 128;  $\bar{a}huneyya = \bar{a}havan\bar{y}a$ , Mahāparin. 20 comp. the commentary to Aug. ii. 4,4.

The group apa can undergo the same changes as ava, and it is sometimes difficult to find out which preposition we must assume as

the corresponding Sanskrit word: ovaraka=apavaraka, 'store-room' Jāt.i.391; oggata=apagata in oggate suriye, 'after sunset,' Suttavibh. ii. 268, ottappa=apatrāpya, 'fear of sinning,' Senart, Mahāvastu 463.

Other contractions have place in oka=udaka, 'water;' Kuçinārā=Kuçinagara; koṭṭhaka=koyashtika, 'paddy bird,' Five Jāt.36; jantaggha=yantragṛha, 'bath-room,' Suttavibh. i. 55; paccūsamaya=paccūsamaya, 'morning;' changula=shaḍangula, 'six inches,' Mah. 211; pavissāmi for pavisissāmi, Jāt.ii.68; sosānta= su+ osārita; dosārita= durosārita 'duly and unduly restored,' M. ix. 4, 11; vivicchā=vici-kicchā, 'doubt;' dūpadhārita, =durupadho, Suttavibh. ii. 275, the opposite to sūpadhārita, 'well kept in mind,' M.v.13, 9.

Metathesis is very frequent in Sinhalese, see my Contrib. to Sinh. Grammar, p. 14; in Pāli we have only a few instances, as *upāhanā* = upānah, 'shoe;' *pārupana* for pāvaraṇa or pāvurana, Suttavibh. i. 180, 'upper robe,' see Pischel, Beitr. iii. 247; *kasaṭa* = sakaṭa, 'insipid,' Mil. 119, Dh. 257, Jāt. ii.97, Ang. ii.5,5; *cilimikā*. C. vi.2, 6 and *cimilikā*, Suttavibh. ii. 40, most probably go back to a form cilamīlikā or ciliminikā, 'an ornament,' Vyut. 208, comp. Vinaya texts ii. 153.

# 11. Changes of Consonants at the End of a Word

According to the rule given above, p. 16, we only find vowels or nasals at the end of a Pāli word. Every nasal is changed into anusvāra and a preceding long vowel shortened in consequence. Very often the anusvāra is dropped altogether especially in verse when a short syllable is required by the metre, as *etaṃ*, *buddhāna sāsanaṃ*=etad buddhānām çāsanam, 'this is the command of the Buddhas,' Dh. v. 183. Other cases will be treated of in the chapter on Sandhi.

Before a word beginning with a consonant the anusvāra can be changed into the nasal of the corresponding class, as in *hirin tarantam*, Jāt.iii. 196. Before a word beginning with a vowel the anusvāra may be changed into m, as in *caram atandito* for caran=carant, Dh. v. 305.

The termination as generally becomes o whatever the consonant beginning the next word may be, as in the nom. sing, of a—stems almost regularly. There are a few exceptions to this rule which are considered as Māgadhisms by most grammarians. A passage of this kind occurs in the Sāmaññaphalasutta Gr. p. 121, n' atthi attakāre n' atthi parakāre n'atthi purisakāre, 'there is no action on our part, there is no action on the part of others, there is no human action.' Another Māgadhizing passage from Majjhima Nikāya is quoted by

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Trenckner, Pāli Misc. p. 75: ānañjādhimuttassa purisapuggalassa ye lokāmisa-saññojane se vante, where we find the e used for neuter noun. I fell sure that a more careful study of Pāli literature will furnish us a great many more passages of this kind. They all agree in this point, that the nom. in e is only formed of stems a and never of amy consonantal stems, the same rule which holds good for the Jainaprākṛt, see E.M. Beitr. zur Gram. d. Jainapr. p. 38. About the origin of this e several opinions have been advanced, but I will not discuss them here, as the subject belongs more especially to Prākṛt grammar. The vocatives bhante and bhikkhave are taken over directly from the Māgadhī.

Besides these nominatives in e we have several adverbs terminating in as, which change the as to e, as suve = cvah 'tomorrow;' tadahe = tadahas, 'on that day,' which also occurs in the form tadahu; atippage (and atippago) = atipragah, Senart, Mahāvastu 418, most probably also tavade yavade, which, however, are explained by Childers as abridged forms of tavadeva, vavadeva.

The s is dropped and the a alone remains in okamokata for okamokatas, 'from the water,' Dh. v. 34;  $t\bar{a}vatimsa = tryastrmça$ , 'thirty-three;' and with lengthening of the a,  $raj\bar{a}patha = rajahpatha$ , 'dust-hole;'  $jar\bar{a}marana = jaras + marana$ , 'decay and death.'

The syllable as is changed to u through an intermediate o in tanahu, mithu = mithas, 'mutually;' mithubheda, M. vi. 28, 8; sajju = sadyas, 'instantly.'

Other consonants at the end of a word are simply dropped, and the remaining vowel generally is not changed. There are, however, some cases where it is lengthened, shortened, or a nasal is added:

- (1) It is lengthened in *dhī*=dhik, 'fie;' *brahā*=bṛhat, 'mighty;' *parisā*=parishad, 'assembly.'
- (2) It is shortenened, as in kayira for kayirā=kuryāt, Das., Jāt. 28; assa=syāt, etc.
- (3) A nasal is added, as in the verbal terminations um=us, eyyum=eyyus, isum=ishus, sanam=sanat, 'always;' sanim=canais,' 'slowly' or 'quickly,' Mah. 156; visum=vishvak, 'separately;' khattum=krtvas, a form which occurs also in the Sanskrit of the northern Buddhists, see Senart, Mahāvastu 541; manam=manāk, 'nearly,' Jāt.i. 149, M.ii.12,1, the same form in Prāk.Hem. ii.169; tiriyam=tiryak, 'across.'

# 12. Compound Consonants

Compound consonants are genarally assimilated, as in all Prākṛt dialects. Sometimes the assimelation is avoided by inserting a vowel, as we have seen above, p. 9. In the beginning of a word, instead of a double surd or sonant senant resulting from assimilation, a single surd or sonant is written, and instead of a surd or sonant aspirate only the aspirate.

The assimilation is generally progressive, so that the first consonant is assimilated to the second, especially so with explosives.

Kt becomes tt in mutta=mukta, 'released' (but kk in paţimukka, 'fixed'); satti=çakti, 'power' (also written satthi); sattu=çaktu, 'barley' (also written satthu at Pāt. 89); sippi 'pearl oyster,' which Trenckner, Pāli Misc.60, identifies with çukti, I believe to be borrowed from some vernacular language.

Kth becomes tth, as satthi=çakthi, 'thigh.'

Gdh becomes ddh, as in duddha=dugdha, 'milk.'

G+bh=bbh: pabbhāra=prāgbhāra, 'a cave.'

D+g=gg: khagga=khadga, 'a sward.'

T+k=kk:  $ukk\bar{a}ra=utk\bar{a}ra$ , 'dung.'

T+p=pp: uppatati=utpat, 'to jump.'

D+g=gg: puggala=pudgala, 'individual.'

D+gh=ggh: uggharati=ud+ghr, 'to ooze.'

D+b=bb: bubbula=budbuda, 'a bubble'.

D+bh=bbh: ubbhijjati=ud+bhid, 'to burst'; 'ubbhitodaka= udbhrtodaka, Gr. 140.

P+t=tt: vutta=upta, 'shaven.'

B+j=jj: paṭikujjeti=prati+kubj, 'to cover', Jāt.i.50,69, Mahāparin. 56, Mahāvastu 377.

B+d=dd: sadda=çabda, 'a sound.'

B+dh=ddh: laddha=labdha, 'taken.'

When an explosive meets a following nasal the assimilation is generally retrogressive, or is avoided by the insertion of a vowel. There are, however, some instances also of progressive assimilation:

K+n becomes kk in sakkoti or sakkuņāti (where the double k can

only be explained by false analogy)=çaknoti, 'to be able'; kukkusa = kiknasa, 'grain,' C. x. 27,4.

 $K+m=mm:rummavat\bar{\imath}=rukmavat\bar{\imath}$ , 'name of a verse', Vuttod. ap. Fryer, Pāli Studies, p.8.

G+n=gg in aggi or aggini=agni, 'fire,' Kacc. 54, Jāt. iii. 320; gini, S.N. 3.

Gh+n=gg: viggha=vighna, 'obstacle.'

 $J+n=\tilde{n}\tilde{n}$ :  $a\tilde{n}\tilde{n}\tilde{a}=\bar{a}j\tilde{n}\bar{a}$ , 'order.' [In  $o\tilde{n}\tilde{a}ta$  and  $ava\tilde{n}\tilde{a}ta=avaj\bar{a}ta$ , 'low born,' Pāt. 83, and  $kola\tilde{n}\tilde{n}a=kulaja$ , 'high born,' Mil. 256, the roots jan and  $j\tilde{n}\tilde{a}$  are confounded.]

D+m: kudumala=kudmala, 'a bud.'

T+n:  $sapatt\bar{\imath}=sapatn\bar{\imath}$ , 'hostile,' but  $gahapat\bar{a}n\bar{\imath}=grhapatn\bar{\imath}$ , 'house-wife,' ratana=ratna, 'jewel.'

T+m: attā and ātumā=ātmā, 'self;' tumo=tmanā, Oldenberg K.Z. xxv. 319.

Th+n=tth: abhimatthati=abhimathnāti, 'to grind.'

D+m: chadda=chadman, 'roof,' paduma=padma, 'lotus;' dammi=dadmi, 'I give.'

Dh+n: bunda=budhna, 'the root of a tree.'

Dh+m:idhuma=idhma, 'fire-wood;' venudhama=venudhma, 'a flute-player;' and from the same root  $uddhum\bar{a}yati=uddhm\bar{a}$ , 'to be blown up.'

P+n: pappoti and  $p\bar{a}pun\bar{a}ti=pr\bar{a}pnoti$ , 'to obtain'; supina and soppa=svapna, 'sleep.'

 $P+m: p\bar{a}pim\bar{a}=p\bar{a}pman$ , 'sinful.'

Groups containing a nasal and following explosive generally remain unchanged; the following are exceptions:

Nc becomes nn in pannāsa=pancāçat, 'fifty;' nn in pannavim= pancavimçati, 'twenty-five,' Jāt. iii. 138; nn in pannarasa, 'fifteen,' pannarasī, 'the day of the full or new moon,' comp. Sinh. panas, Prāk. panavannā, Pischel, Beitr. iii. 245.

Nj becomes  $\tilde{n}\tilde{n}$  in  $vi\tilde{n}\tilde{n}itv\bar{a}$  and  $vi\tilde{n}\tilde{n}\tilde{a}petv\bar{a}$  from  $v_1\tilde{n}j_1$ , Suttavibh.ii. 264, but  $\tilde{a}vi\tilde{n}j_1$ , Suttavibh. i. 127,  $\tilde{a}vi\tilde{n}jan\bar{a}$ , ib. 121, and with hardening of the j to ch,  $\tilde{a}vi\tilde{n}chan\bar{a}$ , C. v. 14, 3, 4.

Nd become nn in punnarika = pundarīka, 'lotus' in a passage of

the Ang. quoted by Oldenberg, Buddha 424; simplified in *bhāṇaka*, = bhāṇdaka, 'a jar;' *dḍ* in *deḍdubha* = duṇḍubha, 'a king of lizard'.

Mb becomes mm in  $amm\bar{a} = amb\bar{a}$ , 'mother;'  $\bar{a}rammana = \bar{a}lambana$ , 'support.'

When two nasals meet progressive assimilation takes place, as in *ummagga* = unmārga, 'an underground watercourse,' *nunna* = nimna, 'deep.'

Groups containing y generally assimilate the same to the other element. If, however, the first element is a dental the whole group passes into the palatal class. In many casas the assimilation is avoided by the insertion of an i or the group remains unchanged.

- (1) Gutturals: ussukka = autsukya, 'zeal;' sokhiya = saukhya, 'happiness; ākhyāta=ākhyāta, 'announced;' yogga=yogya, 'proper.'
- (2) Palatal: vuccati=ucyate, pass. of vac; joti=jyotis, 'light;' jiyā and jyā=jyā, 'the bow-string;' and adejjha=adhijya, Jāt.iii.274.
- (3) Cetebrals : kuḍḍa=kuḍya, 'a wall;' āḍhya, aḍḍha=āḍhya, 'rich;' puñña=puṇya, 'good.'
- (4) Dentals: āhacca=āhṛṭya for āhārya, 'having told;' ūhacca= avahadya, 'having befouled;' ekacca=ekatya, 'a certain,' according to Senart Mahāvastu 388, comp. ekacciya, M.vin. 14.2 (Childers and Trenckner, Pāli Misc. 56 derive it from ekatara); āvajjati=avadhyā, 'to consider;' añña=anya, 'other;' cicca=cintya for cintayitvā. The assimilation does not take place in cetya, cetiya=caitya, 'a relic-shrine;' vyattaya=vyatyaya, 'opposition;' paṭaggi=pratyagni, 'fire in return;' pāṭaṅkī=pratyaṅkin, 'a sedan chair,' M. viii. 10.3; pāṭekka from pratyeka, 'singly' (the regular from pacceka occurs frequently); pasīdiya=prasīdya, 'believing,' Mah. 5; in compositions with ud we obtain the group yy, as uyyoga=udyoga, 'departure.'
- (5) Labials: tappati=tapyate, pass. of tap; labbhati=labhyate, pass. of labh; lepya=lepya, 'plastering.'
- (6) After r we generally find epenthesis, as in  $\bar{a}cariya = \bar{a}c\bar{a}rya$ , 'teacher;'  $suriya = s\bar{u}rya$ , 'sun;' and sometimes the position of the sounds is inverted so that we have the group yir instead of the group riy, as in ayira =  $\bar{a}rya$ ,  $J\bar{a}t.ii.349$   $bhayir\bar{a} = bh\bar{a}ry\bar{a}$ , 'wife;'  $kayir\bar{a} = kury\bar{a}t$  optative, and kayirati = kriyate, passive of kar. Besides, we have cases of retrogressive and progressive assimilation; when retrogressive assimilation takes place we get the group yy and sometimes a single y,

when progressive assimilation, we obtain a single r, as this consonant cannot be doubled, with a long vowel before it. Instances are:  $ayya = \bar{a}rya$ , 'noble;' jiyyati,  $j\bar{i}yati$ , and  $j\bar{i}rati = jar$ , 'to grow old;'  $seyyasi = c\bar{i}ryasi$ , from car, 'to decay,'  $J\bar{a}t.i.174$ ;  $parip\bar{u}rati = parip\bar{u}ryate$ , 'to be filled.' The group ry is changed to ll in  $vipall\bar{a}sa = vipary\bar{a}sa$ , 'change,' Suttavibh. i.7: pallarika = paryanka, 'couch;' pallattha = paryasta, 'posture,'  $J\bar{a}t.i.163$ .

L+y is either preserved or assimilated :  $kaly\bar{a}na$  and  $kally\bar{a}na$  = kalyāna, 'fortunate.'

V+v is often written by in the beginning of a word where it represents the preposition vi; this is the spelling of the Burmese MSS. while the Sinhalese write vy; in a few instances I have found it in the middle of a word, viz. korabya = kauravya, Jāt. ii. 371; upasambyāna = upasamvyāna, 'the outer garment,' Ab. 292. We also find examples of assimilation in the beginning, as *vavatthāpeti* = vyavahāpavati, 'to settle:' vāyamati=vyāyam, 'to struggle;' vodaka=vyudaka,' 'without water;' vossajjati = vyavasrj, 'to relinquish.' In the middle of a word vy remains as in pathavyā, Dh. 32, or is divided by i, as in puthuviyā, Mah. 19, puthuviyam, Att.8; it may however also be assimilated to bb, as in abbocchenna = avyavachinna, 'unbroken,' Mil. 72; abbohārika = avyavahārika, Suttavibh. i. 91; bhātubba=bhrātrivya, 'cousin.' Bālāvatāra, p. 36; abhabba=abhavya, 'unable;' sibbati=sīvyati, 'to sew; 'pasibbaka, 'a bag,' from the same root. The y is altogether dropped in  $g\bar{a}vuta = gavy\bar{u}ti$ , 'a measure of length.' The forms in tayya = tavya, given by the Grammarians as  $\tilde{n}\tilde{a}tayya = j\tilde{n}\tilde{a}tavya$ ,  $pattayya = pr\tilde{a}ptavya$ , I believe do not belong to the living language. After a sibilant we have progressive assimilation; the only exception is ālasya or ālasiya = ālasya, 'sloth,' Dh. 49.

In the group hy the position of the elements is reversed, so that it becomes yh, as mahyam; exceptions are  $b\bar{a}hya$ , 'external' (also  $b\bar{a}hira$  with change of y to r) and etihya=aithya, 'oral tradition,' Ascoli 244. Assimilation; takes place in leyya=lehya, 'to be licked;' epenthesis in hiyyo or  $h\bar{t}yo$ =hyas, 'yesterday.' For yh in vuyhati=uhyate we also find lh: vulhati (Ascoli 244 derives this from the part.  $v\bar{u}lha$ , I doubt whether the form is correct).

R before an explosive is always assimilated, and if the explosive is a dental the group may become cerebral; in a few instances also the influence of the r is shown by aspiration:

(1) Gutturals: sakkharā = çarkarā, 'sugar,' spelt sakkarā, Jāt. i.

238; *vagga* = varga, 'class;' *dīgha*, =dīrgha, 'long,' with compensation; *kakkasa* = karkaça, 'rough.'

- (2) Palatals · acci = arci, 'flame,' spelt acchi in a passage of Samyuttaka Nikāya quoted by Oldenberg, Buddha 434; mucchati = mūrchati, 'to faint;' sajja=sarja, 'the sal tree.'
- (3) Cerebrals: kaṇṇa = karṇa, 'the ear;' kaṇṇakita = karṇakṛta, Suttavibh. ii. 282.
- (4) Dentals: pārivaṭṭaka = parivartaka, 'a robe lent to a priest and returned by him after a period,' Pāt. 8. 13. 78, but pārivattaka Suttavibh. ii. 59; āvaṭṭa=āvarta, 'whirlpool,' Mah. 213, but āvatta, Jāt. i. 70; vaṭṭaka=vartaka, 'quail;' vaṭṭati=vartati, 'to be right,' but āvattati and nibbattati; attha= artha, 'reason,' but aṭṭa, 'lawsuit;' kevaṭṭa= kaivarta, 'fisher,' also spelt keraṭṭha in Wastergaard's Catalogue 21a; chaḍḍeti= chard, 'to throw away,' also spelt chaḍḍh, Jāt. i. 277; partimaddati = parimard, 'to excel,' also spelt parimaddh, Jāt. i. 145; addita=ardita, 'afflicted,' Mah. 3, but aḍḍita, Bv. ii. 129, daḍḍhi= darḍhya, 'sloth,' Trenckner, Pāli Misc. 65. A curious metathesis takes place in gadrabha=gardabha, 'a donkey,' but in gaddabhaṇḍa= gardabhānda, 'the tree Thespesia populneoides,' the assimilation is regular.
- (5) Labials: kappūra=karpūra, 'camphor;' abbuda=arbuda, 'a high number;' gabbha= garbha, 'womb;' kamma=karma, 'action.' The group rv becomes bb, as in pabbaha=parvata (spelt pappata sometimes in Burmese MSS.); cappeti=carv, 'to chew,' C. 317.
- (6) Sibilants: assimilation in dassana = darçana, 'sight;' epenthesis in arisa = arças, 'hemorrhoids;'  $\bar{a}rissa = \bar{a}rsha$ , 'ṛshiship,' Kacc. 216. The group rsh is turned into h in  $kah\bar{a}pana = karsh\bar{a}paṇa$ ,  $k\bar{a}hiti = k\bar{a}rshyati$ . From harsh we have a present hamsati, 'to rejoice,' Suttavibh. i. 8, Kacc. 390.
- (7) Before h we always have epenthesis, as in arahati = arhati, barihisa = arhati, 'sacrificial grass.'

R following an explosive is also generally assimilated, but here we find several instances where it is retained or a vowel is inserted.

(1) Gutturals: vakka=vakra, 'crooked;' khiḍḍā (and kīḍā) = krīḍā, 'play,' khuṃseti=kruç, 'to curse,' comp. Pischel, Beitr. iii. 253; vagga=vyagra, 'irregular,' Oldenberg K.Z. xxv. 324; paccaggha=pratyagra, 'new;' with epenthesis kiriyā= kriyā, 'deed;' kurūra=krūra, 'cruel.'

- (2) Palatals: vajira=vajra, 'thunder-bolt.'
- (3) Dentals: sattu=çatru, 'enemy,' spelt satthu, Dīp, 21; sāvitthī= sāvitrī, M. vi. 35, 8, spelt sāvittī, Fausb. S. N. 75; tattha, yattha, kattha=tatra, yatra, kutra, 'there,' 'where,' parattha=paratra, 'elsewhere;' sothiya=çrotriya, 'a brahmin;' sabbathattā=sarvatratvāt, 'in every way,' according to Weber, Indische Streifen iii. 397; haliddi=haridrī, 'turmeric myrobolan,' Suttavibh. ii. 35, spelt haliddhi, C. 317. The r is retained in utrāsa=uttrāsa, 'terror,' Jāt. ii. 336, participle utrasta, Mil. 23, and utrassa, M. x. 2, 16 (uttasati occurs Att. 205, Jāt. i. 326, uttasta, Jāt. i. 414); dudrabhi=dundubhi, 'drum;' yātrā=yātrā, 'expedition;' adrūbha, 'undeceitful,' M. x. 2, 17 (adūbha, Jāt. i. 180). The group dr is changed to nd in sanda=sādra, 'coarse,' to jj in khujja=kshudra, 'small,' Saddhammop. 93; dhr to jjh in gijjha=gṛdhra 'vulture.'
- (4) Labials: After p the r is assimilated, as in piya = priya, 'dear;' pati = prati, 'in return;' phositum from prush, 'to sprinkle' M. vi. 14, 5,  $parippositv\bar{a}$ , M. i. 25,15, paripphosaka, Gr.140. Br is generally retained, as in  $brav\bar{t}ti$ , from  $br\bar{u}$ , 'to speak,' brahman; bhr is assimilated, as in sobbha = cvabhra 'cave;' mr only in the beginning of a word, as miyyati = mriyate; in the middle a b is developed out of the m after which the r disappears:  $amba = \bar{a}mra$ , 'mango;'  $tamba = t\bar{a}mra$ , 'copper.' Vr is assimilated to v in the beginning, and to bb in the middle of a word: vajati = vrajati, 'to go,' but giribbaja; abbuta = avrata or avrata, 'undisciplined,' Dh. 47.

R, after a sibilant, is generally assimilated, as in  $s\bar{a}vaka = cr\bar{a}vaka$ , 'a pupil;'  $massu = cr\bar{a}vaka$ , 'epenthesis takes place in  $siri = cr\bar{a}vaka$ , 'glory;' daddha and uddha are = dasra and usrā according to Kacc. 333, but Weber Indische Streifen iii. 370, identifies them with damshtrā and ushtra.

Hr is assimilated in hesa=hresha, 'neighing;' sateratā=çatahradā, 'hail;' rassa=hrasva, 'short;' separated in hirī=hrī, 'shame;' but hīļita=hrīta and hīļeti, Jāt. ii. 258, rahada=hrada, 'pond.'

L is on the whole treated very much like r; before gutturals and labials it is assimilated;  $vaggul\bar{\imath}=valgul\bar{\imath}$ , 'bat,' C. vi. 2, 2, Jāt. i. 493;  $ki\bar{n}jakkha=ki\bar{n}jalka$ , 'a filament;' kappa=kalpa, 'time;' pagabbha=pragalbha, 'bold;'  $jamma=j\bar{a}lma$ , 'reckless.' Exceptions are sunka=culka, 'tribute;'  $sunkagh\bar{a}ta$ , 'smuggling,' Suttavibh. i. 47; gumba=culka, 'thicket;'  $sunkagh\bar{a}ta$ , 'the silk-cotton tree.' Lv is assimilated

to bb in kıbbisa=kilvisha, 'fault;' to ll in khallāṭa=khalvāṭa, 'bald;' billa and bella, Jāt. iii. 76,=vilva, 'the Vilva tree,' but beluva=vailva.

L after gutturals and labials is generally separted by i, as in kilissati=kliçati (but parikissati, Fausb. S. N. xi); kilomaka=kloman, 'the pleura,' Mil. 26; klesa, without epenthesis, occurs Dh. v. 88; pilavati=plavati, Dh. 59, Dīp. 56; vipalāvita, Jāt. i. 326; piluvati, Mah. 230; pilakkha=plaksha, 'ficus infectoria,' Suttavibh ii. 35, Jāt. iii. 24; pilotikā=plota, 'a cloth;' pihaka=plīhan, 'the spleen;' ambila=amla, 'sour;' milakkha=mleccha, 'a barbarian,' originally mlaska.

Rl gives ll, as in dullabha=durlabha, 'difficult to obtain.'

L after sibilants and h is generally separated by i, as in  $sil\bar{a}gh\bar{a}=$  çlāghā, 'praise;' silesuma and semha=çleshman, 'phlegm;'  $kil\bar{a}dati=$  hlād, 'to be glad.'

V after gutturals, palatals and cerebals, is assimilated, as in pakka=pakva; 'ripe;' kathati=kvath, 'to boil;' (also written kuth, Vinaya texts, ii. 57, and koddh, Dh. 155), jalati=jvalati, 'to blaze;' kinna=kinya, 'yeast.'

After dentals it is also generally assimilated, as in cattaro= catvāras, 'four;' taco = tvac, 'bark,' 'skin,' comp., however, sanhavāka = clakshnatvak, Dh. 412; it remains unchanged in the suffix tvā or tvāņa, in iritvija=rtvij, 'the officiating priest;' and in the pronoun of the second person tvam, which is also found as tuvam and tam. Tv is changed into cc in caccara=catvara, 'court;' anuvicca=anuviditvā (comm. jānitvā), Dh. 41, Jāt.i. 459, Fausb. S.N.xi.91. Dv is assimilated in dīpa = dvīpa, 'island;' uddāpa = udvāpa, 'foundation of a wall' Mahāparin. 11; ubbāsiyati=udvas, 'to chase;' which is the correct reading at Mah. 45 for ubbāhiyati; it reamains unchanged in dve, 'two' (also duve, but bā=dvā in bārasa, 'twelve'); dvāra, 'door;' advejjha=advaidhya, 'sincere,' Bv. ii. 110. Dhv is assimilated to ddh, as in addhā=adhvan, 'road;' to jjh in majjhāru, M. v.13,6, probably= madhvālu, 'yam.' Nv is changed to mm in dhammantari = dhanavantari, Mil. 272; dalhadhamma = drdhadhanva, Trenckner, P. M. 60 (but gandīvadhanvā, Kacc. 182), comp. Prāk. dhamma, 'bow,' Pāiyal. 37.

After a sibilant v is generally assimilated, as in ass=açva, 'a horse;' sāmi=svāmin, 'lord,' but also suvāmi, Fausb. S.N. xi., suvāmini, Jāt.iii.288; it reamains unchanged in svāna (or sāna, suvāna),=çvā, 'a dog;' sve (and suve),=çvas, 'tomorrow;' ehisvāgata, 'come and be

welcome, 'C. i. 13, 3, Suttavibh. i. 181. Epenthesis in *suvatthi* = svasti, 'welfare.'

Hv undergoes metathesis like hy, as in  $jivh\bar{a}=jihv\bar{a}$ , 'tongue; somedtimes it becomes bbh, as in gabbhara=gahvara, 'a cavern.'

A sibilant preceding or following an explosive is assimilated by the same and generally produces aspiration of the group.

Ksh is mostly changed to kkh or cch, as in cakkhu=cakshus, 'eye;' gavakkha, 'bull's eye,' but gavacchita, Jāt. i. 60; rukkha and vaccha=vṛksha, 'a tree,' Mil. 209, Suttavibh. i. 179; khudda=kshudra, 'small' (chudda, 'mean,' is not the same word, but participle to the root chubh=kshiv, Trenckner, Mil. 130), khamā=kshamā, 'patience' and 'earth;' in the laster signification also chamā, comp. Hem. ii. 18; akkocchi=akrukahīt √kruç, Kacc. 13. Sometimes the aspiration is dropped, as in Takkasilā=Takshaçilā, 'a city in the Punjab;' ikka=ṛksha, 'a bear' (also written isa and isa in Abhidhānapp.), O'-rāka=Ikshvāku. Patissā, 'obedience,' is = pratīkshā according to Senart Mahāvastu 516; appatissavāsa occurs Jāt. ii. 352.

Ts and ps generally become cch, as in jighacchā = jighatsā, 'hunger;' chāta, 'hungry, desirous,' and its opposite nicchāta, Fausb. S. N. 143, from psā, saṃvacchara (and vacchara, Saddhammop. v. 239) = saṃvatsara, 'year;' bībhacca = bībhatsa, 'loathsome;' and from the same root nibbhaccheti, 'to rebuke,' Jāt. ii. 338. Exceptions are most of the roots beginning with s when composed with the preposition ut, which gives the gtoup ss, as ussada=utsada, 'desire,' Fausb. S. N. 149, generally used in the compound ussadaniraya, where Burnouf translates it 'protuberance,' comp. Mahāvastu 372; and the verb ussādiyati, 'to be spoiled,' C. vi. 11,3, Suttavibh. ii. 99. We find, however, also the regular form ucchadeti, Mil. 214; ucchādana, 'rubbing the body with perfumes,' Gr. 10, Mil. 315; ucchanga=utsanga, 'the hip.'

Çc becomes cch, as in niccharati = niçcar, 'to proceed.' An exception is niccitta (for niccita, corr.) 'thoughtless,' Dh. 173, Jāt. ii. 298.

Shk and sk generally become kkh, as nikkha or nekkha=nishka 'golden ornament.' Exceptions are most of the roots beginning with k when composed with the preposition nis, which in Sanskrit must result in skh, but in Pāli only gives kk, e.g., nikkaddhati, 'to expel,'=nishkṛsh; we have, however, the group kkh in nekkhamma=naishkāmya, 'abandonment of desires,' Vinaya texts, i. 104; and in nikkhamati=nishkram, 'to

depart' (nikkam only Mil. 245, Kh. 8); takkara=taskara, 'a thief;' Avakkāra=avaskā ın avakkārapātī, 'slop-basin,' M. 1v. 1.2.

Sht and shth become tth in bhattha=bhrashta, 'fallen' and = bhrshta, 'fried;' pattha=prashtha, 'clever' (Buddhagh. cheka, samattha) Suttavibh. i. 210. ii. 60, 254, mattha and matta=mrshta 'polished;' vatta=vrshta, from vassati, 'to rain' (vuttha, Jāt. ii. 484); attaka=ashtaka (Buddh. addhaka), Suttavibh. i. 81; leddu=leshtu 'a clod of earth.'

St and sth generally become tth, as in adhivattha=adhivasta, 'living on' (adhivuttha, Mahāparin. 23), parivattha, and parivuttha; apattha=apāsta, 'thrown away,' Dh. 27; pattha=prastha, 'a measure of capacity;' aṭṭhi=arthi, 'bone.' Tt in niratta=nirasta, 'rejected,' Fausb. S. N. 150; hīyattana=hyastana, 'yesterday's'; bhaddamutta=bhadramusta, 'Cyperus rotundus,' M. vi. 3, 1; nettiṃsa=nistriṃça, 'merciless,' Jāt.ii. 77; urattāliṃ=urastāḍam, 'beating the breast,' Mil. 11. St remains in viddhasta=vidhavasta, 'broken;' it becomes ss in vassa=basta, 'goat,' but also bhasta, Jāt. iii. 278.

Shp and sp generally become pph, as in puppha=pushpa, 'a flower;' nipphala=nishphala, 'fruitless;' pp in bappa or vappa=bāshpa, 'a tree,' M.x. 2, 13; vanappati=vanaspati, 'a tree,' duppūra=dushpūra, 'difficult to fill,' Dh. 392; nippāpa=nishpāpa, 'sinless,' Dh. 37; poṭṭabba for phoṭṭhabba, 'contact,' Jāt.ii.81; appoṭheti=āsphoṭ ayati, 'to snap the fingres.'

Groups of nasals with sibilants can either be assimilated or remain unchanged, or insert a vowel beween the nasal and the sibilant, or change the sibilant to h with metathesis.

Çn and sn: pañha=praçna, 'question,' and paripañhatı, 'to consider', sināna and nahāna=snāna, 'bathing;' for sināni, 'powder' Assalāyanasutta 13 comp. snānīya=cūrṇa, Pāṇini 3, 3, 113 school.

Shṇ: uṇha=ushṇa, 'hot,' bot sītunnaka for sītuṇhaka, M. viii. 10, 2; taṇhā and tasiṇā=tṛshṇā, 'thirst;' osaṇhati, C. v. 2, 3, is a derivative from saṇha=çlakshṇa, 'smooth'

Çm, shm, sm: sita, mihita=smita, 'smile;' massu=çmaçru, 'beard;' gımha=grishma, 'summer;' asman=açman, 'stone,' but amhanā, Fausb. S. N. 71; amhe=asme, 'us,' but asme, Jāt. iii. 359; usmā=ushman, 'heat,' Mil. 153; bhasma and bhesma=bhīsma, C. vii. 4, 8, Ab. 167; raṃsi and rasmi=raçmi, 'beam;' pamussati, 'to forget,' is derived by S. Goldschmidt, K.Z. xxv. 437, from a root smṛsh, to which also belongs

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Prāk. Pamhusaï, pamhuṭtha, Hem. iv. 75, 184, 258; and this derivation seems to be confirmed by the spelling *pammutṭha* and *pammussitvā*, Dh. 247, 248, Jāt. iii. 511.

The groups hn, hm, generally show metathesis, as ganhati = grhnati, 'to take;' jimhu = jihma, 'crooked,' spelt jima, Jat. i. 290; hn becomes nt in majjhantika for majjhahnika, 'midday.'

The rules of the changes of three or more consonants are, on the whole, the same as those concerning two consonants which have just been laid down. When assimilation takes place an explosive prevails over the other consonants; sattha=çastra, 'a weapon,' but fem. sattī=çastrī, 'a knife;' uddha and ubbha=ūrdhva, 'high;' tikkhiṇa, tikka and tiṇha=tīkshṇa, 'sharp;' kasiṇa=kṛtsna, 'entire,' but subhakiṇha or 'kiṇṇa=çubha-kṛtsna; dosina and junhā=jyotsna, jyotsnā, 'a moonlit night;' anupakhajja=anupraskandja,' 'having occupied;' utplāvita=utplāvita, 'floated,' Mah. 230; bhastā=bhastrā, 'bellows,' is only known from Abhibhānapp.

Rdr is changed to ll in alla=ārdra, 'wet,' Prāk. alla, olla or ulla, Hem. i. 82, but we find also adda, Jāt. i. 244, and addā=ārdrā, 'name of a Nakshatra,' 'Ab. 58, addaka=ārdraka, 'green ginger,' Ab. 459; rdhr becomes ddh in vaddha=vardhra, 'leather,' Jāt. ii. 154, Ang.p. 110.

Tty and ttr, where they are not assimilated, are simplified into ty and tr or tt, as in ratyā instr. of ratti=rātri, 'night;' vimuttāyatana=vimukti+āyatana, 'point of emencipation;'utrāsa and utrasta, or uttāsa and uttasta=uttrāsa, uttrasta, satra=sattra, 'sacrifice;' udriyati, M. iii. 8, 1, Suttavibh. i. 254, stands for uddriyati, 'to split open,' and the substantive udrīyanam occurs Jāt. i.72.

## 13. Rules on Sandhi

The rules on sandhi in Pāli may be divided into rules on vowel-sandhi, and rules on mixed sandhi where a vowel and a consonant are concerned. Consonantal sandhi does not occur in Pāli. All the rules we are about to give only deal with the so-called external sandhi, as the rules on internal sandhi from a part of the phonetics we have given above. We only speak here about the sandhi of words, the sandhi of compounds belonging to the chapter on the formation of the stem.

Word-sandhi is not imperative in Pāli as in Sanskrit; it only takes place in certain cases, and the MSS. vary greatly as to its use or neglect. In prose it is almost confined to indeclinables and pronouns, in juxtaposition or in connection with a verb or a noun, as e.g., my ayam = me

ayam, yan nūna=yad nūna, tasseva=tassa eva, tatth Ānanda, etc. The particles that are almost regulary found in sandhi are ca, iti (ti), api (pi), eva, as kathañ ca=katham ca, kiñcid eva=kiñci eva, tathāpi=tathā api, etc. The negative na, followed by a vowel, generally loses its a, as n' atthi, n' eva, nāhosi, which Trenckner, Pāli Misc. 81, prefers writing na tthi, as though the root as had lost its initial a. So he also writes tāva 'ham, eva 'ham Mil. 219; tattha 'ham and nāma 'ham, and the same with ayam, although nāmāham and nāmāham are equally frequent.

The other cases of word-sandhi in prose, without any indeclinable or pronoun, are divided by Childers into three categories: (1) a vocative beginning with a vowel is preceded by a word ending in a vowel, as gacch'āvuso, pañcah' Upāli, āyām' Ānanda; (2) a verb is preceded or followed by a noun in grammatical relation with it, as utthāyāsanā, āsanā vuṭṭhāya, upajjhāyass'ārocesum; (3) two nouns are in grammatical relation, as dukkhass' antam, dvīh' ākārehi.

In verse word-sandhi is much more frequent than in prose, under the influence of metrical exigency; in later texts, like Dīpavaṃsa, Mahāvaṃsa, Buddhavaṃsa, Cariyāpiṭaka, and especislly Khuddasikkhā, it is not uncommon that whole syllables disappear in a sandhi where it is required by the metre, as e.g.chaṅgula=chaḍaṅgula, Mah. 211; dasahassī=dasasahassī, Bv. xiii. 21; ticattārīsahassāni, Bv. xvi.15.

#### I. Vowel Sandhi

A+a,  $\bar{a}$  followed by a single consonant gives  $\bar{a}$ , as  $n\bar{a}hosi=na+ahosi$ ,  $n\bar{a}sakkhi=na+asakhi$ ; if a double consonant follows the a remains short, and an apostrophe is put generally after the terminating consonant of the first word, to show that a vowel has been dropped, as in n' atthi=na atthi, pan'  $a\bar{n}\bar{n}am=pana$   $a\bar{n}\bar{n}am$ . In a few instances we find long  $\bar{a}$  before a double consonant, as  $n\bar{a}ssa=na$  assa, Dh.23, comp. above the chapter on the quantity of vowels, p. 9. A short a before a single consonant occurs also in a few instances, as c' aham, Jāt i. 3; n' ahosi=na ahosi, Dh.155.

A or  $\bar{a}+i$  or  $\bar{i}$  gives e, as in Skt., e.g. kokilāyeva=kokilāya+iva, neresi=na  $\bar{i}$ resi. An exception is iti, which always gives  $\bar{a}ti$  with a preceding a, e.g. Tissāti=Tissa iti; i is elided by a preceding a in yena 'me=yena ime, pana 'me=pana ime;  $\bar{a}+i$  sometimes gives  $\bar{i}$ , as seyyath $\bar{i}$ dam=seyyath $\bar{a}$  idam=seyyath $\bar{a}$  idam=se

A or  $\bar{a}+u$  or  $\bar{u}$  gives o, as in nopeti=na upeti, pakkhandito-

Rules on Sandhi 43

 $dadhim = pakkhandit\bar{a} \ udadhim$ , Mah. 117. Seldom we find  $\bar{u}$  instead, as  $c\bar{u}bhayam = ca \ ubhayam$ .

A is frequently elided by i or u whether followed by a conjunct consonant or not, as in passath' imam = passatha imam, yass' indriyāni = yassa indriyāni.

A is generally elided before e, o: ganhath' etam = ganhatha etam, iv' otatam = iva otatam.

 $\bar{A}$  sometimes elides a following i, u or e in eva:  $disv\bar{a}$ '  $panissayam=disv\bar{a}$  upanissayam  $sutv\bar{a}$ '  $va=sutv\bar{a}$  eva, Das. 4. Generally  $\bar{a}$  is elided before a long vowel or before a short vowel followed by a conjunct consonant: tath'  $eva=tath\bar{a}$  eva, tay'  $ajja=tay\bar{a}$  ajja, seldom before a short vowel followed by a single consonant:  $mu\bar{n}citv$ '  $aham=mu\bar{n}citv\bar{a}$  aham;  $\bar{a}$  Jāt. i. 13.

I is generally elided before short or long vowels, as  $gacch\bar{a}m'$   $aha\underline{m}=gach\bar{a}mi$   $aha\underline{m}$ ,  $id\bar{a}n'$   $ime=id\bar{a}ni$  ime, dasah'  $up\bar{a}gata=dasahi$   $up\bar{a}gata$ ,  $dv\bar{i}h'$   $\bar{a}k\bar{a}reh\bar{i}=dv\bar{i}hi$   $\bar{a}k\bar{a}rehi$ , etc. Sometimes it remains elides the following vowel: phalanti 'saniyo = phalanti asaniyo,  $id\bar{a}ni$ 'ssa=idani assa; i+a occasionally gives  $\bar{a}$ :  $ki\bar{n}c\bar{a}pi=ki\bar{n}ci$  api,  $p\bar{a}ha\bar{m}=pi$   $aha\bar{m}$ .

 $\bar{I}$  is seldom elided: tunh' assa= $tunh\bar{\iota}$  assa; at Jāt. iii. 414,we have  $dass\bar{a}ham=d\bar{a}s\bar{\iota}+aham$ .

I+i gives  $\bar{\imath}$ : paluj $\bar{\imath}$ ti = paluj $\bar{\imath}$ i iti, Par. 40. I preceded by t (tt) and followed by another vowel may become y:  $j\bar{\imath}$ vanty elaka= $j\bar{\imath}$ vanti elaka, guty atha=gutti atha. Generally, however, the group ty is changed to cc, especially when the first word is iti: icceva $\bar{m}$ =ity eva $\bar{m}$ . The corresponding change of dy to  $j\bar{\jmath}$  is not attested by good authority. Api followed by a vowel may become app through an intermediate apy: app eva=api eva; itv, tv for iti, ti is most probably only a corrupt spelling.

U is elided before a vowel: samet'  $\bar{a}yasm\bar{a}=sametu$   $\bar{a}yasm\bar{a}$ ,  $t\bar{a}s$ '  $eva=t\bar{a}su$  eva. Rarely it elides a following vowel: nu' ttha=nu attha, kinnu'  $m\bar{a}=kinnu$   $im\bar{a}$ . U+i sometimes gives  $\bar{u}$ :  $s\bar{a}dh\bar{u}ti=s\bar{a}dhu+iti$ . Before a or e it can be changed to v: vatthv ettha=vatthu ettha, sesesv ayam=sesesu ayam.

E may be elided before a long vowel or before a short vowel followed by a conjunct consonant: m'  $\bar{a}si=me$   $\bar{a}si$ , sac' assa=sace assa; sometimes it elides a following vowel: te' me=te ime, sace' jja=sace ajja,re' yya=re ayya, Mil.124; occasionally e+a gives  $\bar{a}$ , as  $sac\bar{a}yam=sace+ayam$ , Dh.140, 165; but the e can also be turned

into y, as if were i, and an a following lengthened by compensation when a single consonant follows:  $ty\bar{a}ham=te$  aham,  $my\bar{a}yam=me$  ayam, ty ajja=te ajja; exception,  $ty\bar{a}ssa=te$  assa.

O is elided before a long vowel or a short vowel followed by a double consonant: kut' ettha=kuto ettha, tay' assu=tayo assu, tat' uddham=tato uddham. It elides a following vowel in so'ham=so aham=so aham, cattāro' me=caitāro ime, etc. O+a gives  $\bar{a}$ :  $dukkh\bar{a}-yam=dukkho$  ayam, Jāt. i.168. O can also be turned into v (as e into y) and an initial a lengthened if followed by a single consonant:  $yv\bar{a}ham=yo$  aham, khvassa=kho assa, yveva=yo eva: exceptions,  $sv\bar{a}ssu=so$  assu, Jāt.i,196;  $khv\bar{a}ssa=kho$  assa, Payoga Siddhi.

Euphonic consonants are often inserted when two vowels meet, to avoid a hiatus; especially the semi-vowels y and v are used for this purpose.

Y is inserted between a word terminating in a or  $\bar{a}$ , when followed by idam or any of the oblique cases of this pronoun which begins with i: na yidam,  $m\bar{a}$   $yime=m\bar{a}$  ime,  $yathayidam=yath\bar{a}$  idam with shortening of the  $\bar{a}$ . The same process takes place with eva and iva, which latter, however, is changed to viya by metathesis. When a,  $\bar{a}$  is followed by u,  $\bar{u}$ , v may be inserted for euphony:  $bhant\bar{a}$   $vudikkhati=bhant\bar{a}$  udikkhati.

Sometimes a euphonic m is inserted between two vowels:  $idham-\bar{a}hu=idha$   $\bar{a}hu$ , pauiganiya-m-asesam=pariganiya asesam, Girimānandasutta in Paritta,  $kapi-m-\bar{a}gantv\bar{a}$ , Cariy. ii. 5,4; or r it the following word is iva:  $\bar{a}ragge-r-iva=\bar{a}ragge$  iva,  $s\bar{a}sapo-r-iva=s\bar{a}sapo$  iva,  $sikh\bar{a}-r-iva=sikh\bar{a}$  iva, Mahāsamayas. 21. Final  $\bar{a}$  is shortened before this r in yatha-r-iva,  $tatha-r-iva=yath\bar{a}$  eva,  $tath\bar{a}$  eva, Kacc. 19.

In a great many cases a lost consonant is revived to avoid the hiatus, as in yasmād apeti = yasmād apeti, kocid eva = kaçcid eva, tunhīm āsina = tūshņīm āsīna, vuttir esā = vṛttir eshā, chaṭabhiññā = shaḍabhijñā, puthag eva = pṛthag eva, pag eva = prāg eva, with shortening of the ā, sammadaññā = samyag ājñā, with change of g to d, and anvad = anvak in a passage of the Maggasaṃyutta quoted by Morris, 'Report on Pāli literature,' p. 5. Dhir atthu, Jāt. i. 59, stands for dhig atthu, vijjur eva for vijjud eva. Jāt.iii.464 we have jīvar eva for jīvann eva; attadatha stands for attanattha = ātman + artha, satṭhud anvaya for satthur anvaya, punad eva for punar eva.

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#### II. Mixed Sandhi

Original double consonants simplified by assimilation at the beginning of a word, can again be doubled after a word terminating in a vowel: yatra tthitam=yatra thitam for yatra sthitam. This is often done in verse when a long syllable is required.

In a few cases a lost final consonant is revived before a consonant, as  $y\bar{a}va\bar{n}$  c'  $idam=y\bar{a}va$  ca idam, suhanus  $sah\bar{a}$ , Jat. ii. 31, tayas su=trayas svid, Kh. 9.

As we have seen above, p. 31, sometimes anusvāra stands for an original consonant, and in this case before a vowel it is liable to be replaced by the original consonant. Sanskrit becomes *sakim* in Pāli, but before a vowel we have *sakid*; in the same way we have *tad* for *tam*, yad for yam, etc.

In verse when a short syllable is required, anusvāra can be elided before a consonant: no ce muñceyya' candımam for muñceyyam Candaparitta, ākankha virāgam for ākankham. Dh. v. 343. Or else the whole syllable may be dropped, as in rajovajall' ukkuṭikappamānam as the metre requires, Dh.v. 141; piyān' adassanam for piyānam, Dh.v. 210; pāpan' akaraṇam, for pāpānam, v 333; nipajj' aham for nipajjim, Jāt. i. 13. When the anusvāra is dropped the remaining a can be contraced with a following a to ā, as in saccāham=satyam aham. Suttavibh. i. 190; labheyyāham=labheyyam aham, Parin. 59; idāham=idam+aham in the phrase ekam idāham samayam comp. Oldenberg, K. Z. xxv. 325.

Only in late texts an anusvāra can elide a following vowel, as cīrassam' dhunā for adhunā, vassantam 'malakam in two passages from Pāli Burmese books quoted by Oldenberg, 'India Office Catalogue, p. 121,' sovannamayam 'nuññātam for anuññātam, Khuddasikkhā, xxxvi. 15.

# 14. Declension

We distinguish in Pāli, as in Sanskrit, stems ending in vowels and stems ending in consonants, and according to this division the whole declension of substantives and adjectives is arranged. It must however be remarked, that the vowel stems have largely encroached upon the consonantal stems, and that only fragments of a consonantal inflexion have remained. Especially consonantal stems identical with roots, which are frequent enough in Sanskrit, have almost totally disappeared from Pāli, and have been replaced by dissyllabic stems increased by the

addition of a vowel. A careful investigation of the old texts has only yielded the following instances of consonantal root- stems: taco, pl. of tvac, 'skin,' Dh. 111, Kh. 3; pādā instr. of pad, 'foot,' Dh. vācā, instr. of vāc, 'speech.' Kh. 9; pamudi, loc. of pramud, 'joy', Gr. 139; parisati and parisatin, Suttavibh. ii. 285, loc. of parishad, 'assembly,'

There are two possibilities of turning these consonantal stems into vowel-stems: (1) The terminating consonant is dropped, and the word passes into the declension of that vowel which how stands at the end, e.g. upanisā = upanishad; āpā = āpad, Jāt. ii. 317, which are inflected like feminine  $\bar{a}$ -stems;  $\bar{a}si = \bar{a}cis$ , 'blessing,' 'inflected like an i-stem: maru = marut, name of a 'deva,' inflected like an u-stem. (2) The stem is increased by addition of an a (which may represent originally the termination of the acc. sing., comp. however Pischel, Beitr. iii. 262), and the word is now inflected like an a-stem, masculine, feminine or neuter, according to the gender of the original noun. Such instances are kita=krt, and visagata for visakata=vishakrt, Suttavibh. i. 80; tivutā=trivṛt, name of a 'plant;' barihisa=barhis, 'sacrificial grass.' Sometimes the gender is changed is changed, as in sarado m. 'year' = çarad f. comp. Piscel gramm. Prāc. 5; Beiter. iii. 240. Change of gender is very frequent in Pāli, as for instance in vacībheda, Khudda-sikkhā xl. 1, we have instead of  $\bar{a}$  the thematic vowel  $\bar{i}$ , and as this is also found in some other compound A do not believe that vaci is a locative like tvaci in tvacisāra, Pān. vi. 3, 9; comp. Jamaprāk. vatījoa Beitr. 5.  $\bar{A}p$  is generally used in the nom. pl.  $\hat{a}po$ , we find however a gen. āpassa, Mil. 363.

Only very few vestiges of the dual occur in the texts known to us at present: to *idh' āgato*, 'these two having come,' Dīp. 56; *ubho* = ubhau, Dh. v. 74, 306; *mātāpitu*, 'father and mother,' Cariy. ii. 9, 7, if this does not stand for the acc. 'pitrīn. Generally, the plural replaces the dual even in such cases as *jayampatī* and *tudampatī*, 'man and wife,' where the meaning clearly points to a duality.

#### I. Vowel Bases

# Masculine and Neuter in a. Dhamma, 'The Law'

Singular Plural

Nom. dhammo. dhammā, dhammāse

Voc. dhamma, dhammā. dhammā. Acc. dhammam. dhamme.

Instr. dhammena. dhammebi, dhammehi.

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Dat. dhammassa (dhammāya). dhammānam.

Abl. dhammā, dhammasmā, dhammehi, dhammehi.

dhammamhā.

Singular

Gen. dhammassa. dhammānam.

Loc. dhamme, dhammasmim, dhammesu.

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## Rūpa, 'The Image'

Plural

Nom. Voc. Acc. rūpam. rūpāni, rūpā. rūpāni, rūpe. Instr. rūpena. rūpebhi, rūpehi.

Dat. rūpassa (rūpāya). rūpānam.

Abl. rūpā, rūpasmā, rūpamhā. rūpebhi, rūpehi.

Gen. rūpassa. rūpānam. Loc. rūpe, rūpasmim, rūpamhi. rūpesu.

The form given in the table as dative is, properly speaking, the genitive = Skt. dharmasya, rūpasya, which has taken up the function of dative in Pāli. The old dative in āya, which I have given in paranthesis, is only used to denote the intention, and is almost synonmous with an infinitive; only few instances occur where the dative has a terminative meaning as Dh.v. 174, saggāya gacchati, 'goes to heaven,' and Dh.v. 311, nirayāya upakaḍḍhati, 'brings to hell,' comp. Pischels remarks, Beitr. zur kunde d. indog. Spr.i. 111, 119; lokānukampāya=lokam anukampitum, 'through compassion for the world;' na patthaye nirayam dassanāya, 'I do not wish to see the hell.' Especially the dative atthāya is used frequently with the meaning 'for the good of, for the sake of,' a in Buddhassa atthāya jīvitm parivvajāmi, 'for Buddha's sake I will say down my life,' comp. Childers, s.v. We have also an abridged from atthā used in the same sense, e.g. in bhojanatthā, 'for the sake of food,' Jāt iii.425. Other instances of this abridged dative are esanā= esanāya, 'in search of', Ten Jāt. 48, 81; anāpucchā=anāpucchāya, 'without asking leave,' comp. paripucchāya, Mil. 93; lābhā in such sentences as lābhā vata no, 'this is for our advantage,' which Childers explained as a dative, is in reality a nom. fem. identical with the masc. lābha, comp. Senart Mahāvastu 550.

The ablative stands for the instrumental in  $jav\bar{a}$ , 'speedily,'  $D\bar{p}$ . 23; and  $ahims\bar{a}$ , 'throught Pity ,' Dh. v. 270. The suffix  $s\bar{a}$  is very often

also used to denote an instr., as in *vāhasā*, 'by dint of,' Mil. 379; Suttavibh. ii. 158 (comp. the v. l.); *talasā*, 'by the sole of the foot' (com. *pādatalena*), Jāt. ii. 223; *rasasā*, 'by taste,' Jāt. iii. 328; *bilasā*, *padasā*, Kacc. 91; *basā*, 'by force,' Cariy. ii. 4,7.

In the ablative the terminations in *dhammasmā*, *dhammamhā* and in the loc., *dhammasmim*, *dhammamhi*, are taken from the pronominal inflection. Besides, we have two other terminations for the ablative, to = skt. tas, and so = ças, which occur mostly in later texts, but also in a few instances in the Jātaka and Dhp. Instances are *gaṇanāto*, 'by number,' Jāt. i. 29; *cāpāto*, 'from the bow,' Dh. v. 320; devato, 'from a deva,' Bv. xvi. 7; *orato pāraṃ gacchati*, *pārato oram āgacchati* 'goes from this end of the field to the further end and back again from the end to this,' Jāt. i. 57 *mettāto*, 'from friendship,' Saddhammop. v. 487, 489. With so we have *bhāgaso*, 'by portion,' Mil. 330; *parivattaso*, 'by turns,' Mahāparin. 60; *tīni yojanaso*, 'three yojanas wide,' Bv. xxi. 24.

In the locative the forms in *e* and in *smim* or *mhi* are almost equally frequent already in earlier texts, see Torp, Die Flexion des Pāli, p. 18. The forms *bilasi* and *padasi* given by Kacc. 91 do not occur anywhere else. The locative is used instead of a dative in *brāhmaņe*, Cariy.i.9, 47.

In the nom. pl. of the masculine we have a form in āse which corresponds to the vedic nom. pl. in āsas, as paṇḍutāse, 'the learned,' Fausb. S. N. xi. 167; rukkhāse, 'the trees,' Jāt. 111. 399, comp. Oldenberg, K.Z. xxv. 315.

The acc. pl. of the masculines in e is somewhat difficult to explain: Kuhn compares it to the vedic pronominal forms asme, yushme, which are used likewise for the nominative and accusative, and refers to the explanation offered by Schleicher, Compendium p. 611 for these forms; comp. Torp; p. 19, S. Goldschmidt, K.Z. xxv. 438.

The instr. pl. in ebhi or ehi quite corresponds to the vedic form in ebhis (or to the ablative in ebhyas, as the forms are the same in Pāli). Instances for the form in bhi are given by Oldenberg, K.Z. xxv. 316, 317. In old texts we find besides a form in e corresponding to the instr. of the classical Sanskrit in ais, for inst. vanīpake, used as a dative, 'to the beggars,' Cariy. i. 4, 9; yācake, ib. i.8, 12; adhane āture jiņņe yācake pāṭṭhike jane samaṇabrahmaṇe khīṇe deti dānaṃ akiñcane, ib. i. 1, 9; guņe dasah' upāgataṃ, instr., Jāt. i. 6.

In the plural of the neuter we have the regular form  $citt\bar{a}ni$  for nom., and acc., and besides  $r\bar{u}p\bar{a}$  for the nom., and  $r\bar{u}pe$  for the acc.,

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which are both taken from the masculine declension. Thus, we have satte dukkhā pamocayi, 'he released the beings from pain,' Mah. 2; pāņe vihiṃsati, v. 1. for pāṇāni hiṃsati, 'he hurts living creatures,' Vasala sutta v. 2. The same confusion of gender occurs in pabbatāni, Dh. v. 188 (probably through attraction from vanāni), in dukkhā, 'sorrow,' which may be used as neuter and masc., and (according to Fausböll), even as fem.

In the locative pl. Childers gives a form milakkhusu form milakkha, 'a barbarian,' but without any reference.

# Feminine in ā Kaññā, 'The Girl'

	Singular	Plural
Nom.	kaññā.	kaññā, kaññāyo.
Voc.	kaññe.	kaññā, kaññāyo.
Acc.	kaññaṃ.	kaññā, kaññāy.
Instr.	kaññāya.	kaññā,kaññhi.
Dat.	kañña.	kaññānam.
Abl.	kaññāya.	kaññābhi, kaññāhi.
Gen.	kañña.	kaññānaṃ.
Loc.	kaññāyaṃ, kaññāya.	kaññāsu.

In the vocative we have the following exceptions: ammā, annā, ambā, tātā, all signifying 'mother,' form the voc. like the nom., Kacc. p. 64; of ammā, we have besides a voc. amma, frequent in Dh. The loc. kaññāya is taken from the genitive. For the nom. pl. in ā and āyo, comp. Oldenberg, K.Z.xxv. 317.

# Masculine and Neuter in i

# Aggi, 'The Fire'

	Singular	Plural
N. & V.	aggi.	aggayo, aggī.
Acc.	aggiṃ.	aggī, aggayo.
Instr.	agginā.	aggībhi, aggīhi.
Dat.	aggino, aggissa.	aggīnaṃ.
Abl.	agginā, aggismā, aggimhā.	aggībhi, aggīhi.
Gen.	aggino, aggismā.	aggīnaṃ.
Loc.	aggismim, aggimhi.	aggīsu.

#### Akkhi, 'The Eye'

	Singular	Plural
N. & V.	akkhi, akkim.	akkhīni, akkhī.
Acc.	akkiṃ.	akkhīni, akkhī.
Instr.	akkhinā.	akkhībhi, akkhīhi.
Dat.	akkhino, akkhissa.	akkhīnam.
Abl.	akkhinā, akkhismā, akkhimhā.	akkhībhi, akkhīhi.
Gen.	akkhismā, akkhissa.	akkhīnam.
Loc.	akkhismim.	akkhīsu.

A voc. *ise*, corresponding to the Skt. rshe, occurs in Rūpasiddhi, and Jāt. xix. 1, 2. A gen. *mune*, is given by Oldenberg, K.Z. xxv. 318. The ancient loc. in o, is only formed from the stem ādi, according to Kacc. 41, ādo and ādu, Dh. 96; a loc. gire, after the analogy of the astems, occurs Jāt. iii. 157. An instr. after the same analogy is buddharamsena, Bv. x. 28. Besides, we very often, especially in Dīp., find the simple stem used for almost any case of the sing., see Oldenberg, K.Z. xxv. 318.

A nom. pl. aggino is found Saddhammop. v. 586, together with the regular from aggayo. In the oblique cases of the plural we only find the short i occasionally in verses, as ñātihi, patisanthāravuttinam, Dh.146.

Instances of the nominative accusative of neuters in m, formed after the analogy of the a-stems are not very frequent, but numerous enough to show that the from really exists: akkhim, Dh. 140; atthim, Das. J. 5, 12. The nominative plural  $akkh\bar{i}$ , occurs Dh.82.

#### Feminine in $\bar{\imath}$

# Ratti, 'The Night'

Singnlar	Plural
N Voc. ratti.	rattiyo, rattī.
Acc. rattim.	rattī, rattiyo.
Ins. Abl. rattiyā.	rattībhi, rattīhi.
D. Gen. rattiyā	rattīnaṃ.
Loc. rattiyam, re	attiyā. rattīsu.

The nominative plural *rattī*, is formed exactly like the corresponding from of the masculine stems *aggī*, most probably after the analogy of the *a*-stems (Torp. 41). In the genitive sing, we have a from

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kasino like aggino in Kasibhāradvājasutta v.1, and in the locative  $ratto = \bar{a}do$ , Dh. v. 299. The locative singular in  $\bar{a}$ , is properly speaking a genitive, as we have noticed also in  $ka\tilde{n}\tilde{n}\tilde{a}$  confusion between these two cases. Instead of the group iy in the oblique cases of the singular, and in the nominative accusative of the plural, we also find simple y, and this may be contracted with a preceding dental according to the rules give above, p. 34. In this way we obtain forms like  $nikaty\tilde{a}$ , from nikrti, 'fraud,' Jāt. ii. 183, nikacca with shortened  $\tilde{a}$  Suttavibh. i. 90; Jacca for jatiya; sammucca for sammutiya, etc., comp. Fausb., introd. to the Suttanipāta transl. p. xi. Instead of rattiya we have ratya, Dh. 178.

The declension of the steam in  $\bar{\imath}$  is very much the same as of those in  $\bar{\imath}$ :

# Nadī, 'A River'

	Singular	Plural
N. & Voc.	nadī.	nadiyo, najjo, nadī.
Acc.	nadiṃ.	nadī, nadiyo, najje.
Ins. Abl.	nadiyā, nadyā, najjā.	nadībhi, nadīnam.
D.Gen.	nadiyā, nadyā, najjā.	nadīnaṃ.
Loc.	nadiyam, najjam,nadiyā.	nadīsu.

In the ablative singular we have a contracted from pesī for pesiyā, Mil. 421, an ablative in to is sirito from sirī=çrī, Samanta Pās. 304. From dabbī, 'spoon,' we have the genitive davyā, Jāt. iii. 218. The nominative plural najjo occurs only Kacc. 56. An enlarged form of the genitive plural in iyānam, is met with in a few example: bhaginīyānam, Mah. 4; tevīsatiyānam, Dh, 117; caturasītiyanam, Dh. 350; it supposes a nominative singular in iyā, like çriyā for çrī in the Sanskrit of the Northern Buddhists.

The declension of  $itth\bar{\imath}$  or  $th\bar{\imath}=str\bar{\imath}$ , 'a woman,' follows nadi in general; in the acc. singular we have an additional form itthiyam=striyam, in the genitive  $thiyam=stry\bar{\imath}m$ , in the locative  $itthiy\bar{\imath}a$ .

#### Masculines and Neuters in u

## Bhikkhu, 'A Mendicant Friar'

	Singular	Plural
Nom.	bhikkhu.	bhikkhavo, bhikkhū.
Voc	bhikkhu.	bhikkhayo, bhikkhaye, bhikkhū.

bhikkum. bhikkhavo, bhikkhavo. Acc. bhikkhūbhi, bhikkhūhi, instr. bhikkunā. D. G. bhikkuno, bhikkhussa. bhikkhūnam.

Abl. bhikkunā, bhikkhusmā, bhikkhūbhi, bhikkhūhi. bhikkhumhā.

bhikkhusmim, bhikkhumhi, bhikkhūsu. Loc.

In the voc. sing. we find Sutano, Jat. iii. 329. A rest of the old gen. in os, survives in hetu=hetos, Dh. v. 84. In the oblique cases of the plural again we find the short u (like the short i) occasionally in verses, as jantuhi, Anecd. 33; bhikkhusu, Dh.v 73; jantunam, Ten. Jāt. 91. A form bahunnam with double n instead of  $\bar{u}$  occurs Dh. 81. Irregular forms of the nom. pl. are jantuyo and mittaduno from mittadu=mitradruh. Mah. 10. jantuvo and hetuvo.

Masculines terminating in  $\bar{u}$  keep it in the nom. sing., as abhibh $\bar{u}$ , Dh. 255, but shorten it in the other cases. The plural is abhibhū or abhibhuvo, from sabbaññū=sarvajñā: sabbaññū or sabbaññuno, from sahabhū: sahabhuvo, sahabhuno,

The neuters in u form the nom. voc. acc. pl. either in  $\bar{u}$  or  $\bar{u}ni$ , as  $madh\bar{u}$  or  $madh\bar{u}ni$ . The nom. and acc. sing. can take m like the corresponding forms of the i-stems, as cakkhum udapādi, Kacc.27.

#### Feminines in ū

## Dhenu, 'A Cow'

Singular Plural NV. dhenu. dhenuvo, dhenuyo, dhenū. Acc. dhenum. dhenū, dhenuyo. I.A. dhenūbhi, dhenūhi. dhenuyā. D.G. dhenuyā. dhenūnam.

dhenuyam, dhenuyā. Loc. dhenūsu.

The nom. pl. dhenuvo. occurs Dh. 237, where Fausböll has altered it to dhenuyo. Bhū, 'the earth,' makes in the ioc. sing. bhuvi, Kacc. 45; massu, thought being a neuter, forms its gen. according to the fem. fashion massuyā, Jāt. iii. 315. An abl. with the termination to occurs in natthuto, 'into the nose, M. viii. 1,11, jambuto, By. xvii. 9, the loc. dhātuyā, C. ix. 1, 4.

The feminines terminating in  $\bar{u}$  follow the declension of *dhenu* with the only exception of the nom. sing., which may adopt the from in  $\bar{u}$  as  $vadh\bar{u}$ , 'a wife,' Ab. 230 (but vadhu, Suttavibh. i. 18);  $sarabh\bar{u} = sarayu$ , 'name of a river;'  $cam\bar{u} = cam\bar{u}$ , 'an army;'  $p\bar{a}d\bar{u} = p\bar{a}d\bar{u}$ , 'a shoe;'  $sass\bar{u} = cam\bar{u}$ , 'mother-in-law.'

#### Stems ending in a diphthong

#### Go, 'A Cow'

	Singular	Plural
N V.	go.	gavo, gāvo.
Acc.	gavam, gāvam, gāvum.	gavo, gāvo.
Inster.	gavena, gāvena.	gobhi, gohi.
D.G.	gavassa, gāvassa.	gavaṃ, gonaṃ, gunnaṃ.
Abl.	gavā, gāvā, gavasmā,	gobhi, gohi.
	gāvasmā, gavamhā, gāvamhā.	
Loc.	gave, gāve, gavasmim	gosu, gavesu, āvesu.
	gāvasmiṃ, gavamhi,	
	gāvamhı.	

We find throughout the declension a new stem, gava or  $g\bar{a}va$ , which is inflected like a masculine a-stem; we meet even with a nom. pl.  $gav\bar{a}$ , Jāt. i. 336, together with the nom.  $g\bar{a}viyo$ , of the fem.  $g\bar{a}v\bar{\imath}$ .

All other diphthongic stems have disappeared in Pāli: nau has become nāvā following the declension of the feminine  $\bar{a}$ -stems, dyu has become divo with the only exception of the instr. sing.  $div\bar{a}$ , which is used like an adverb in Pāli.

#### 15. Consonantal Stems

#### Stems in Masals

These are considered by the grammarians as belonging to the vowel-stems.

### (1) in an

#### Attan=ātman, 'Self'

	Singular	Plural
Nom.	attā.	attāno.
Vcc.	atta, attā.	attāno.

Acc. attānam, attam attāno.

Instr. attanā, [attena] attānoebhi, attanehi.

D.G. attano. attānam.

Abl. attānā attanehi, attanehi.

Loc. attani. attanesu.

A palallel form is ātumā with the same inflexion, and besides, tumo, Fausb. S. N. 170. The instr. attena, the abl. attasmā, attamhā, and the loc. attasmim, attamhi, given by Clough, have not yet been found in any old text.

#### Brahman, 'Brahma'

Plural Singular brahāno. Nom. brahmā. brahme. brahmāno Voc. brahmānam, brahmam. brahmāno. Acc. brahmebhi, brahmehi. Instr. brahmanā, brahmunā. brahmānam, brahmunam. D. G. brahmuno, [brahmassa]. brahmebhi, brahmehi, brahmanā, brahmunā, Abl. Loc. brahmani. brahmesu.

The voc. sing. brahme, Kacc. 96, is formed after the analogy of the i-stems.

## Rājan, 'A King'

	Singular	Plural
Nom.	rājā.	rājāno.
Voc.	rājā, rājā.	rājāno.
Acc.	rājānaṃ, rājāṃ.	rājāno.
Instr.	raññā, rājena.	rājūbhi, rājūhi, rājebhi, rājehi.
D . G.	rañño, rājino, [rājassa].	raññaṃ,rājūnaṃ,rājānaṃ.
Abl.	raññā.	rājūbhi, rājūhi, rājebhi, rājehi.
Loc.	raññe, rājini.	rājūsu, rājesu.

We find an instr. muddhanā from muddhā, 'the head,' Mah. 117, and a loc. muddhani, ib. 108; an instr. rājaṇā, which I think cannot be correct, has been given by Fausboll, Jāt.iii. 180, and a gen. rañāassa, Jāt. iii. 70. The forms rājam, rājema suppose a stem rāja, rājino and

 $r\bar{a}jini$  are simply formed by epenthesis; in the plural we have to adopt a stem  $r\bar{a}ju$ , form which all the cases can be derived. The legend PAONAO PAO on the Indobactrian coins does not represent a Pāli form  $r\bar{a}jun\bar{a}m$   $r\bar{a}j\bar{a}$  with double suffix, as Kuhn believed, but is a Skythian title formed on the model of  $r\bar{a}j\bar{a}dir\bar{a}j\bar{a}$ , comp. Oldenberg, Ind. Ant. x. 215 note.

Some substantives belonging to this declension in Sankrit follow the a-declension in Pāli, as Vissakammo=Viçvakarman, 'name of a celestial architect,' spelt Vissukamma, Cariy. i.9,41; vivattachaddo=vivṛttachdaman, 'one by whom the veil is rolled away;' puthulomo=pṛthuloman, 'a fish;' athabbana=atharvan, yakana=yakan, 'the liver;' chaka, chakana=çakan, 'dung.'

### Yuvan, 'Young'

	Singular	Plural
Nom.	yuvā.	yuvāno, yuvānā.
Voc.	yuva, yuvā,yuvāna, yuvānā.	yuvāno, yuvānā.
Acc.	yuvānaṃ, yuvaṃ.	yuvāne, yuve.
Instr.	yuvānā, yuvānena, yuvena.	yuvānebhi, yuvānehi,
		yuvebhi, yuvehi.
D.G.	yuvānassa, y <b>uvassa</b> .	yuvānānam, yuvānam.
Abl.	yuvānā, yuvānasmā, yuvānamhā.	yuvānebhi, yuvānehi, yuvebhi, yuvehi.
Loc.	yuvāne, yuvānasmim. yuvānamhi, yuve, yuvasmim, yuvamhi.	yuvānesu, yuvāsu, yuvesu

Most of these forms suppose a new stem  $yuv\bar{a}na$ , formed from the acc. sing. Besides we have a stem  $y\bar{u}na$ , from which the nom. sing.  $y\bar{u}no$ , f.  $y\bar{u}n\bar{i}$ , is formed, according to Kacc. 328.

### Sā=çvan, 'A Dog'

	Singular	Plural
Nom.	sā.	sā,[sāno].
Voc.	sa.	sā.
Acc.	saṃ.[sānaṃ].	se.
Instr.	sena.	sābhi, sāhi
Dat.	sāya, sassa.	sānaṃ.

Abl. sā, sasmā, samhā. sābhi, sāhi.
Gen. sassa. sānaṃ.
Loc. se, sasmim, samhi. sāsu.

Besides we have for the nom. sing. the forms sāno, svāno, suvāno, soņo and sūno. Other words following the same inflection are paccakkhadhammā=pratyakshadharman, 'whose virtues are evident,' and gandīvadhanvā, 'using the bow Gāṇḍīva,' Kacc. 182.

A few substantives form only some cases according to the nasal inflection, while the other cases follow another declension, as kammaṃ = karman, 'action,' which forms the instr. sing. kammunā, kammanā and kammena, the gen. kammuno and kammassa, Pāt. 11; abl. kammā Dh. v. 127, loc. kammani. Thāmo = sthāmas, 'strength,' forms part of its cases after the uasal inflection as the instr. thāmunā, Kacc. 81. but generally thāmasā, Suttavibh. ii. 134, Mah. 143 (Turnour thāmavā), gen. thāmuno. In the same way addhā = adhvan, 'a road,' forms addhano and addhuno; bhasmaṃ = bhasman, 'ashes,' loc. bhasmani.

### Pumā=puṃs, 'a man'

	Singular	Plural
Nom.	pumā.	pumāno.
Voc.	pumaṃ.	pumāno.
Acc.	ритат.	pumāno.
Instr.	pumānā, pumunā, pumena.	pumānebhi, pumānehi.
D. G.	pumuno, pumassa	pumānaṃ.
Abl.	pumunā.	pumānebhi, pumānehi.
Loc.	Pumāne, pume, pumasmim.	pumāsu, pumesu.
	pumamhi.	

A nom. sing. pumo accurs Cariy. iii. 6,2, similar to tumo = ātmā, Fausb. S.N. 170.

(2) Adjectives terminating in mant and vant.

# Gunavant, 'virtuous'

	Singular	Plural
Nom.	guņavā, guņvanto.	guņavanto, guņavantā.
Voc.	guṇavaṃ, guṇavaṃ.	guņavantam, guņavantā.
Acc.	guṇavantaṃ, guṇavaṃ.	guṇavante.

Instr.	guņavatā,	guṇavantena.	guṇavantebh	hi, guṇavantehi.
D. G.	guṇavato,	guṇavantassa,	guṇavataṃ,	guṇavantānaṃ.
	gunavassa	•		

Abl. guṇavatā. guṇavantebhi, guṇavantehi. Loc. guṇavati, guṇavante, guṇa- guṇavantebhi, guṇavantehi.

vantasmim, gunavatamhi. gunavantesu.

The neuter has in the nom, voc. acc. sing. guṇavaṃ, pl. guṇavanti, guṇavantāni. The fem. is made by adding  $\bar{\imath}$  to the strong or the weak form,  $guṇavant\bar{\imath}$ , or  $guṇavant\bar{\imath}$ ; it follows the declension of the  $\bar{\imath}$ -stems.

The participles in *ant* follow this declension with the only exception of the nom. sing. which they from in *am* or anto, as *gaccham*, *gacchanto*, 'going.'

A nom from the weak from jīvato for jīvanto occurs in a verse, Jāt. iii. 539; an acc. vajatam, Vasala Sutta, v. 6; asatam, Dh. v. 73, Vasala Sutta v. 16. From the root kar we have the part. nom. pl. masc. karoto, Dh. v. 66; nom. sing. fem. karontī, Dh. v. 246; gen. sing. masc. karoto, Dh. v. 116; instr. saṃkhārontena, in a passage of Petavatthu-vṇṇanā quoted I.O.C. p. 79; all these form follow the 3rd pers. pl. karontī. Besides we have the gen. anukubbassa, Jāt. iii. 108, rendered in the Mahāvastu by kṛtyānukāryasya.

Arahant, 'an Arhat,' forms the nom. sing. araham and arahā, the former being the regular one, the latter following the analogy of mahā. In the nom. pl. we have arahanto and arahā, Dīp. 30, Anecd. 7. A similar nom. pl. mahā occurs Ab. 413. Kacc. 94 gives a nom. sing. maham which does not occur anywhere else; the nom. sing. mahā occurs separately, Dh. 298, Mah. 132, and besides very often in compounds.

In the pl. we have one instance of an old form sabbhi = sadbhis, Dh. v. 151.

In the neuter nom. sing. we have the forms  $brah\bar{a}$ , Ab. 700,  $madhuv\bar{a}$ , Dh. v. 69; asam = asat, Jāt. ii. 32.

Of participles of the perfect in vams we have *bhayadassivā* = °darçiyams; vidvams forms nom. sing. *aviddasu*, Dh. 47; nom. pl.  $aviddas\bar{u}$ , C. xii. 1, 3; besides we have  $sabbavid\bar{u}$ , Dh. v. 353;  $lokavid\bar{u}$  = lokavid of the Northern Buddhists. Lotus 860.

### Bhavam, 'Sir'

Singular Plural

Nom. bhavaṃ. bhavanto, bhonto, bhavantā. Voc. bho, bhonta. bhavanto, bhonto, bhante.

Acc. bhavantam, bhotam. bhavante, bhonte.

Instr. bhavatā, bhotā, bhavantena. D. G. bhavato, bhoto, bhavantassa.

Abl. bhavatā, bhotā.

The fem. shows the forms bhavantī, bhavati, bhotī, pl. bhotiyo.

# (3) Stems in in

# Daṇḍin, 'a mendicant'

	Singular	Plural
Nom.	daṇḍī.	daṇḍino, daṇḍī.
Voc.	daṇḍī.	daņģino, daņģī.
Acc.	daṇḍinaṃ, daṇḍiṃ.	daņģino, daņģī.
Instr.	daṇḍinā.	daṇḍībhi, daṇḍīhi.
D.G.	daņģina, daņģissa.	daṇḍīnaṃ.
Abl.	daņģinā, daņģismā, daņģimhā.	daṇḍībhi, daṇḍīhi.
Loc.	daņḍini, daṇḍismiṃ, dandimhi	daņḍīsu

At M.vi. 28, 11, we have an acc. pl. brahmacriye, of brahmacārin, 'holy;' and at Mahāparinibb. 16, we have the same passage with the v.1. brahmacārayo; the nom. pl. sabrahmacārī occurs Mahāparin. 5.  $D\bar{\imath}p\bar{\imath}=dv\bar{\imath}pin$ , 'a leopard,' forms the nom. pl.  $d\bar{\imath}piyo$ , Jāt. xiv. 1, 27. The, oblique cases of the plural have a short i only in verses:  $p\bar{a}ninam$ , Dh. 135, aunyoginam, Dh. v. 209. An instance of a nom.sing. with  $\bar{\imath}$  is setthi=creshtin, 'a treasurer, merchant,' Jāt. i. 120,122, where all MSS. agree in the spelling.

Examples of an elarged stem are *sāramatino* nom. sing=sāramati, Mil. 420; *verinesu* from *verin*, 'hostile,' Dh. v. 197.

## (4) Stems in r

## Satthā=çāstri, 'the teacher'

Singular		Plural
Nom.	sattā.	sattāro.
Voc.	sattha, satthā.	sattāro.

Voc.

māta, mātā.

Acc.	sattāram, sattaram.	sattāro, sattāre.
Instr.	sattharā, satthārā, satthunā.	sattārebhi, satthārehi.
D. G.	satthu, satthussa.	satthānaṃ, satthārānaṃ.
Abl.	sattharā, satthānā.	satthārebhi, satthārehi.
Loc.	satthari.	satthāresu.

Here also some stems have adopted the a-declension, as saltakatta = çalyakartr, 'a physician,' Mil. 110, Att. 208, to which Childers compares nāhapita=snāpitr, 'a barber;' kattara=kartr, 'a weak man,' in kattaradaṇḍa, M. v. 6, 2; kattarasuppa, M. vii. 1, 4; and theta=sthātr, 'firm,' Gr. 5. In composition the base generally terminates in u, as sotu=çrotr, 'hearer,' Daṭh, vi. 6 (the gen. pl. sotūnaṃ occurs in a passage of the Mahāvagga of the Dīghanikāya, quoted I. O. C. 69); bhattu=bhartr, 'husband,' Jāt. ii. 348; mandhātu=mandhātr, Jāt. ii. 310. The voc. sing. sattha occurs Kacc. 116; the acc. sattharaṃ, Bv. xxii. 14; an instr. satthāya, Dh. 87; the gen. satthussa, Mah. 240.

# Pitā=pitṛ, 'a father'

i ita—piti, a iather			
	Singular	Plural	
Nom.	pitā.	pitaro.	
Voc.	pita, pitā.	pıtaro.	
Acc.	pitaram, pitum.	pitaro, pitare.	
Instr.	pitarā, pitunā, petyā.	pitarebhi, pitarehi, pitūbhi, pitūhi.	
D. G.	pitu, pituno, pitussa.	pitarānam, pitānam, pitūnam, pitunnam.	
Abl.	pitarā.	pitarebhi, pitarehi, pitūbhi, pitūhi.	
Loc	pitari.	pitaresu, pitūsu.	
	Mātā=mātṛ, 'a mo	ther'	
	Singular	Plural	
Nom.	mātā.	mātaro.	

mātaro.

Acc. mātaram. mātaro, mātare.

Instr. Abl. mātarā, mātuyā, mātyā. {mātarebhi, mātarehi, mātūbhi, mātūhi.}

D. G. mātu, mātuyā, mātyā. mātarānam, mātānam, mātūnam, mātunnam.
Loc mātari mātuyam mātyam mātaresu mātūsu.

Loc. mātari, mātuyaṃ, mātyaṃ, mātaresu, mātūsu. mātuyā, mātyā.

The acc. sing. pitum occurs Cariy. ii. 9, 3; the instr. mātyā and petyā, Jāt. 527, v. 3, 5; the gen. mātussa, geven by Kacc. 98, is not found anywhere else, and belongs most probally to a bāhuvrīhī (Torp. 33). An abl. pitito and mātito, 'on father's and on mother's side,' occurs Kacc. 102, and in a passage from a commentary quoted by Alwis, Introd. xlv.

The nom. pl. *mātārapitaro*, where both stems are inflected, occurs Ang. p. 121; the gen. *mātāpitunnaṃ*, Ten Jāt. 92. An acc. pl. bhāte occurs Dīp. 6, 21, 22.

The declension of  $dh\bar{\imath}ta$ , 'daughter,' is on the whole the same as that of  $m\bar{a}t\bar{a}$ ; we find, however, a voc.  $dh\bar{\imath}te$ , Dh. 364, Jāt. iii. 21; and an acc. pl.  $dh\bar{\imath}t\bar{a}$ , Jāt. i. 240. In composition we have  $dh\bar{\imath}titth\bar{a}na$ , Mah. 222;  $dh\bar{\imath}tuhetu$ , Mil. 117.

#### Sakhi, 'a friend'

	Singular	Plural
Nom.	sakhā.	sakhāyo, sakhāno, sakhino.
Voc.	sakha, sakhā, sakhi, sakhe.	sakhyo, sakhāno, sakhino.
Acc.	sakhānaṃ, sakhaṃ, sakhāraṃ.	sakhhī, sakhāyo, sakhāno,
		sakhino.
Instr.	sakhinā. {	sakhārebhi, sakhārehi, sakhebhi, sakhehi.
Abl.	saknina. {	sakhebhi, sakhehi.
D. G.	sakhino, sakhissa.	sakhārānam, sakhīnam.
Loc.	sakhe.	sakhāresu, sakhesu.

The acc. Sakhaṃ occurs Jāt. ii. 348. an abl. sakhārasmā is found Jāt. iii. 534; sakhito, Att. 216. Acc. pl. sakhī, Att. 203.

### (5) Stems in s

## Manas, 'the mind'

Singular

N.V.A. mano, manam.
Instr. manasā, manena.
D.G. manaso, manassa.

Abl. manasā, manasmā, manamhā.

Loc. manasi, mane, manasmim, manamhi.

The plural of manas not in use. The other form it after the a-declension. The nom. acc. manam. occurs Dh. v. 96, Cariy. i. 8. 5; rajam. 'dust', Dh. v. 313, but rajo (with the adj. in the masc.), Dh. v. 125; sumedham, Dh. v. 208, but sumedhaso, Dh. v. 29; voc. dummedha, Dh. v. 394; a gen. tapassa occurs Jāt. i. 293; nom. pl. sumanā, Kh. 6.

Candramas, 'the moon,' becomes  $candim\bar{a}$ ; jaras, 'old age,'  $Jar\bar{a}$ ; and asparas, 'a celestial nymph,'  $acchar\bar{a}$ ; all these follow the  $\bar{a}$ -declension.

The comparatives in yo, iyyo, follow the declension mano; seyyo=çreyas, 'better;' gariyo=garīyas, from guru, 'heavy.'

# Āyus, 'life'

	Singular	Plural
N. V. A. āyu, āyum.		āyūni, āyū.
Instr.	āyusā, āyunā.	āyūbhi, āyūhi.
D. G.	āyussa, ūyuno.	āyūnaṃ.
Loc.	āvusi, āvuni.	āvūsu.

The instr. āyusā occurs Kh. 16; āyunā, Dh. 288; the gen. āyussa, Mah. 220; āyuno, Dh. 128.

# 16. Comperison of Adjectives

Adjectives with vowel bases form their comparison in two ways:

- (1) by adding tara for the comparative and tama for the superlative.
- (2) By adding iyo, yo for the comparative and ittha for the superlative.

Thus, from  $p\bar{a}pa$ , 'bad,' we can form  $p\bar{a}patra$ ,  $p\bar{a}patama$  and  $p\bar{a}piyo$ ,  $p\bar{a}pittha$ , Kacc. 196. The comparative of no. 1 may be combined with the superlative of the superlative of no. 2; thus we obtain  $p\bar{a}pitthatara$ , C. i. 6, 2. Besides, the comparative of no. 2 may be increased by the addition of the suffix ika, which gives us  $p\bar{a}piyyasika$  in  $tassap\bar{a}piyyasik\bar{a}kamma$ , M. ix. 6, 2; and with contraction  $p\bar{a}pissika$ .

Adjectives terminating in mant, vant and vin, drop these suffixes before the comparative and superlative suffixes, as for inst.

guṇavā comp. guṇiyo, sup. guṇiṭṭha; mebhāvī comp. medhiyo, sup. medhiṭha.

Some adjectives form their comp. and sup. form entirely different bases:

antika,	'near.'	Comp.	nediyo. Sup.	nediṭṭha.
bāļha,	'strong.'	>>	sādhiyo. "	sādhiṭṭha.
vuddha,	'old.'	>>	jeyyo. "	jeṭṭha.
appa,	'small.'	31	kaniyo. "	kaniṭṭha.
yuvā,	'young.'}	31		
pasattha,	'excellent.'	57	seyyo. "	seṭṭha.

### 17. Pronominal Inflexion

(1) Personal Pronouns of the First and Second Persons.

#### First Person

	Singular	Plural	
Nom.	ahaṃ.	vayaṃ, mayaṃ, amhe	
Acc	тат, татат.	asme, amhe, amhākaṃ	
Instr. Abl.	mayā.	amhebhi, amhehi.	
Dat. Gen.	тата, татат.	amhākaṃ, amhaṃ.	
	mayham, amham.		
Loc.	mayi.	amhesu.	
	Second Person		
	Singular	Plural	

taṃ, tavaṃ.

Instr. Abl. tvayā, tayā. tumhebhi, tumhehi.

Dat. Gen. tava, tavaṃ. tumhākam, tumhaṃ.

tuyham, tumham.

tvam, tuvam.

tvam, tuvam.

Nom.

Acc.

Loc. tvayi, tayi. tumhesu.

Besides, we have the enclitic form: me, te for instr. dat. and gen. sing; no, vo for ace. dat. and gen. pl.

tumhe.

tumhe, tumhākam.

The old form of the nom. pl. vayam occurs Dh. 105, the acc. pl. asme, Jāt iii. 359. The acc. pl. amhākam and tumhākam are borrowed from the gen. The nom. pl. amhe and the gen. amham and tumhāmam, amhānam and tumhānam, are only found in Kacc. 83, 84.

The enclitic forms no and vo may also be used for the nom., according to Kacc. 78.

### (2) The Demonstrative Pronoun

### (a) Stem ta, 'this'

### Singular

Masc. and Neuter Feminine

Nom. so, sa, tam. (tad) sā.

Acc. tam tam (tas). tam.

Instr. tena. tāya.

Dat.Gen. tassa. tassā, tassāya, tissā, tissāya, tāya.

Abl. tasmā, tamhā. tāya.

Loc. tasmim, tamhi. tassam, tāsam, tāsam, tāsam.

Plural

Masc. and Neuter Feminine

Nom. Acc. te, tāni. tā, tāyo.

Instr.Abl. tebhi, tehi. tābhi, tāhi.

Dat.Gen. tesam, tesānam. tāsam, tāsānam.

Loc. tesu. tāsu.

For all the forms beginning with t we may substitute the corresponding forms of the stem na. At Kacc. 89, the following forms are given:  $n\bar{a}yo$ , nam, ne, nesu, namhi,  $n\bar{a}hi$ . Besides we have the stemes eta and ena, which are inflected like ta and na respectively.

In the nom. sing. we generally have so, the form of the substantives, sa occurs Dh. v. 142, 267, 268. A gen. sing. masc. tasmassa is found Anecd. 15, and at Mil. 136 all MSS. give tāsaṃ for the loc. sing. fem., which is no doubt a correct form, comp. nesaṃ, ib. 179.

## (b) Stem ima, 'this'

### Singular

Masc. and Neuter Feminine

Nom. ayam, idam, imam. ayam

Acc. imam, idam, imam. imam. Instr. iminā, anena. imāya.

D. G. imassa, assa. imissā, imissāya, imāya, assā, assāya.

Abl. imasmā, imamhā, imāya.

asmā.

Loc. imasmim, imamhi, imissam, imāsam, imāyam, assam.

asmim.

#### Plural

Masc. and Neuter Feminine

N. A. ime, imāni. imā, imāyo.

In. Ab. imebhi, imehi, ebhi, ehi. imābhi, imāhi.

D. G. imesam, imesānam, imesām, imāsānam.

Loc. imesu. imāsu.

esam, esānam.

In  $tadamin\bar{a}$  for  $tadimin\bar{a}$ , Vasala Sutta, v. 22, i is changed to a by dissimilation.

## (c) Stem amu, 'that'

### Singular

Masc. and Neuter Feminine

Nom.asu, aduṃasu.Acc.amuṃ, aduṃ.amuṃ.Instr.amunā.amuyā.

Dat.Gen. amussa amuyā. amuyā.

Abl. amusmā, amumhiā. amuyā.

Loc. amusmim, amumhi. amussam, amuyam.

#### Pluarl

Masc. and Fem. Neutr.

Nom. Acc. amū, amuyo. amu, amūni.

Instr. Abl. amūbhi, amūhi.

Dat.Gen. amūsam, amūsānam.

Loc. amūsu.

### (3) Relative Pronoun

### Stem ya, 'which'

#### Singular

	Masc. and Neuter	Feminine
Nom.	yo, yaṃ (yad).	yā.
Acc.	yaṃ yaṃ. (yad).	yaṃ.
Instr.	yena.	yāya.
Dat.Gen.	yassa.	yassā, yāya.
Abl.	yamhā \	yāya.
Loc.	yasmiṃ,yamhi.	yassam, yāyam
		Pluarl
	Masc. and Neutr	Feminine
Nom.	ye,yāni.	yā, yāyo.
Acc.	ye,yāni.	yā, yāyo.
Instr.	yebhi, yehi.	yābhi, yāhi.
Dat.Gen.	yesam,	yāsaṃ.
Abl	yebhi, yehi.	yābhi, yāhi.
Loc.	yesu.	yāsu.

## (4) Interrogative Pronouns

### Stem ka, 'which'

The inflexion of this stem is like that of ya with the following exceptions: The nom. sing. neut. is kim; in the dat. and gen. masc. and neut. sing. we have kassa and kissa, in the loc. kasmim, kamni, kismim and kimhi.

The indefinite pronouns are formed by adding the particles ci, api and cana to the forms of the interrogative.

Besides, we have a number of words which although not being pronouns in the true sense of the word, still follow the pronominal inflexion: First of all, possessives like madīya, māmaka, 'mine,' amhadīya, 'our,' would belong to this class, but of these we only find nominatives in our texts. Next come the adjectives composed with dṛç, as mādisa, 'like me;' etādisa or etārisa, and īdisa, 'like this;' kīdisa, 'like what;' cirassaṃ for cirassa, 'long since,' seems to be a pronominal form.

By adding the suffixes *tara*, *tama* (already found in comparision of adjectives) to the interrogative stems, we obtain the pronominal adjectives *katara* and *katama*, which do not differ in their signification much from the single pronoun.

The other adjectives inflected according to the pronominal inflexion, are sabba and vissa = sarva and viçva, 'all;'  $a\tilde{n}\tilde{n}a = anya$ , 'other,' with its derivatives  $a\tilde{n}\tilde{n}atara$ ,  $a\tilde{n}\tilde{n}atama$ ; itara, 'other;' uttara, uttama, 'higher;' adhara, 'inferior;' apara, para, 'other;' dakkhina, 'right;' pubba, 'former;' amuka and asuka, 'this.' The numeral for one, eka, also follow the same declension.

The grammarian Moggallāna (Alwis Catal., 184), asserts that these adjectives can also follow the regular declension of the stems, and gives some passages from unknown texts.

### 18. Numerals

### (1) Cardinals

- 1 eka.
- 2 dvi.
- 3 ti.
- 4 catu.
- 5 pañca.
- 6 cha.
- 7 satta.
- 8 attha.
- 9 nava.
- 10 dasa.
- 11 ekādasa, ekārasa.
- 12 dvādasa, bārasa
- 13 terasa.
- 14 catuddasa, coddasa, cuddasa.
- 15 pañcadasa.
- 16 solasa.
- 17 sattadasa, sattarasa.
- 18 aṭṭhādasa, aṭṭhārasa.
- 19 ekūnavīsam, ekūnavīsati.
- 20 vīsam, vīsati
- 30 timsam, timsati.
- 40 cattārīsam, cattālīsam, tālsam.

Numerals 67

50 paññāsam, paññāsa.

60 saṭṭhi, saṭṭhim

70 sațțati, sațțari.

80 asīti.

90 navuti.

100 satam.

1000 sahassam.

The forms *vīsaṃ*, *tiṃsaṃ*, etc., show that the termination *ti* of the Sanskṛit, can be replaced in Pāli by the anusvāra. We find the anusvāra occasionally also where it has no right to be, as in *drādasaṃ*, Mah. 8; saṭṭhiṃ = shashṭi, Dh. 211. When the nasal is dropped the remaining a may be lengthened.

The intermediate numerals between *vīsaṃ* and *tiṃsaṃ*, etc., are regular, with the only exception that instead of *dvi* we generally find *dvā*, *bā* (or *dva*, *ba* before a double consonant), as in *dvāvīsati*, *bāvīsati*, *dvattiṃsa*, *battiṃsa*, *dvenavu*ti, and instead if *ti*, *te* as in *tevīsati*. For caturaçīti we have *cullāsīti*, for pañcaviṃçati *paṇṇuvīsaṃ*, Jāt. iii. 138.

From *cha* we have a plural *chaļāni*, Dīp. 108, and for twelve *dviccha* = dvishash, Ab. 195.

About the declension of eka, see the Pronouns.

Dvi and the synonymous ubho have the following inflexion.

N.A. dve duve. ubho, ubhe

I. A. dvībhi, dvīhi ubhobhi, ubhohi, ubhebhi, ubhehi.

D.G. dvinnam, duvinnam. ubhinnam.

Loc. dvīsu. ubhosu, udhesu.

Ubho = Skt. ubhau is one of the few rests of the Dual remaining in Pāli (see above, p. 46).

In the numerals *ti* and *catu* we have separate forms for the fem., very much in the same way as in Skt.:

#### Masc. and Neuter

Nom. Acc.	tayo,	tīni.	cattāro, caturo, cattāri.
Instr. Abl.	tībhi,	tīhi.	catubbhi, catūbhi, catūhi.
Dat. Gen.	tiņņam,	tiṇṇannaṃ.	catuṇṇaṃ.
Loc.	tīsu.		catūsu.

#### Feminine

Nom. Acc. tisso. catasso.

Instr. Abl. tībhi, tīhi. catūbhi, catūhi.

Dat. Gen. tissannam. catassannam.

Loc. tīsu catūsu.

Pañca forms the instr. abl. pañcahi, Gen. Dat. pañcannam, Loc. pañcasu, and this is the declension all numerals in a follow.

The numerals in i are declined like the fem. i-stems, satam and sahassam like neuters in am.

Satam and sahassam, in conjunction with a noun, can be joined to nouns in the following ways:

- (1) With a noun in the gen. pl., as itthīnam pañca satāni, 'five hundred women.'
- (2) With a noun in the nom. pl. (sataṃ being either in the sing. or in the pl.) as pañcasataṃ yati, '500 yatis,' or pañcasatā bhikkhū, '500 mendicants.'
- (3) With a noun in the sing., as chacattālīsam vassam atikamma, after the lapse of 146 years.
- (4) As a compound, the numeral being the last part, as *gāthāsatam*, '100 stanzas.'
- (5) As a compound, the nimeral being the first part, as sajassaha-tilā, 'a thousand jaţilas.'

Another form of sahassa is sahassī, which is used promiscuously as a masc. and fem. in connection with cakkavāla or vasudhā, etc., as dasasahassī-cakkavāle, 'in ten thousand worlds,' Dh. 94. Sometimes the subst. is omitted, and dasasahassī is treated like a fem. noun, as dasasahassī pakampati, 'ten thousand worlds quake,' comp. Senart, Mahāvastu 373.

### The Ordimals

The Ordinals for five, and from seven upwards, are formed by adding the suffix ma to the cardinal, as  $pa\bar{n}cama$ , 'the fifth,' sattama, 'the seventh;' the fem. terminates in  $\bar{\imath}$  the neuter in am, and they are declined like the corresponding subtantives.

The Ordinal forms of the first numerals are: one, pathama; two, dutiya; three, tatiya; four, catuttha; six, chaṭṭha; saṭṭha (only known from Kacc. 200) and chaṭṭhama, Jāt. i. 22, By. ii. 142.

From twenty upwards we have two forms, one by adding ma to the cardinal in ti, as  $v\bar{t}satima$ , 'the twentieth;' and one by dropping the termination ti, as  $v\bar{t}sa$ , timsa, etc.

From satam, sahassam, we have the ordinals satama, sahassama.

Besides, we have fem. ordinals in i to designate the day of the month; as  $pa\tilde{n}cam\tilde{i}$ , the fifth day; ' $ek\bar{a}das\bar{i}$ , 'the eleventh day,' etc.

# 19. Conjugation

The division of the Pāli Verb, as established by the native grammarians, is on the whole the same as that of the Skt. They admit of seven classes, of which the first again is divided into four conjugations; these correspond to the classes i., vi., ii., iii. of the Sanskrit grammarians, and the other six classes to the remaining Sanskrit classes in the following order, vii., iv., v., ix., viii., Thus, we obtain the following divisions of the Pāli Verb:

First class: (a) Verbs terminating in  $\bar{\imath}$ ,  $\bar{u}$  or a consonant, which take guna and the vowel  $a: \sqrt{bh\bar{u}}$ ,  $bhav\bar{a}mi$ , 'to be.'

- (b) Verbs ending in consonants which take the vowel a, but no guṇa :  $\sqrt{tud}$ ,  $tud\bar{a}mi$ , 'to pierce.'
- (c) Verbs ending in vowels which take guna, but add the personal endings without an intervening vowel:  $\sqrt{i}$ , emi 'to go'.
- (d) Verbs forming their bases by reduplication;  $\sqrt{h\bar{u} \ junomi}$ , 'to sacrifice.'

The third division (c) is gives in the Dhātumañjūsā as  $huv\bar{a}dsyo$ , where  $h\bar{u}$  is another from of the of the root  $bh\bar{u}$ , 'to be,' forming its present homi.

Second class: Verbs taking the a-vowel and inserting a nasal before the final consonant of the root:  $\sqrt{rudh}$ ,  $rundh\bar{a}mi$ , 'to play.'

Third class: Verbs adding the suffix ya,  $y\bar{a}$  to the root:  $\sqrt{div}$ ,  $dibb\bar{a}mi$ , 'to play.'

Fourth class: Verbs adding the suffix  $\sqrt{n\bar{a}}$ , nu (which becomes no by guna) or  $un\bar{a}$  to the root:  $\sqrt{cru}$ ,  $sun\bar{a}mi$  or sunomi, 'to hear;'  $\sqrt{ap}$ ,  $p\bar{a}pun\bar{a}mi$ , 'to attain.'

Fifth class: Verbs ending in a vowel, which add the suffix  $n\bar{a}$  to the root:  $\sqrt{kr\bar{i}}$ ,  $kin\bar{a}mi$ , 'to buy.'

Sixth class: Verbs ending in a consonant, which add u (or o by guna) to the root:  $\sqrt{tan}$ , tanomi, 'to stretch.'

Seventh class. Verbs adding the suffix aya (or e by contraction) to the root:  $\sqrt{cur}$ , corayāmi or coremi, 'to steal.'

Verbs have two voices, the *Parassapada* or Transitive, and the *Attanopada* or Intransitive; the use of the latter is much more restricted than in Sanskrit, most of the Attanopada verbs having adopted the Parassapada terminations.

We distinguish in Pāli, as in Sanskrit, special and general tenses. It must, however, be observed of one another, as will be shown hereafter.

### **Special Tenses**

- (1) Present Indicative, Subjunctive, Optative and Imperative.
- (2) Imperfect.

#### **General Tenses**

- (1) Perfect.
- (2) Aorist.
- (3) Future.
- (4) Conditional.

Terminations of the Present Indicative.

Parassapada		Attano	pada
Sing.	Pl.	Sing.	Pl.
mi	ma	e	mhe (make, mha)
si	tha	se	vhe
ti	nti	te	nte. re

These terminations are very similar to the corresponding ones in Sanskrit. In the first pers. pl. of the Attan. we sometimes find the fuller form in mahe, as bhasmībhavāmahe, Mah. 6; the termination mha shortened form mhe occurs in dadamha, Dh. 188, mañāmha, Dh. 205 (the long ā is crasis for the i of the following iti, see above, p. 42). Instead of ante in the third pers. pl. we frequently meet with the termination are, especially in old texts, metrical as well as prosaïcal, as miyyare=mriyante, 'they die,' Das. Jāt. 34; udiccare form udīksh, 'they looked,' M.I. 15, 6; adhikīrare, 'they overwhelm,' Jāt. iii. 57. This are is most probally the vedic termination re of the third pers. pl. ātmanep. as in çṛnvire; it also exists in Prāk. Hem. iii. 142.

We have to consider first the verbs that add the terminations immediately to the root (which form the second class in Sanskrit, in

Pāli division (c) of the first class). The paradigm adopted by the native grammarians is  $h\bar{u} = bh\bar{u}$ , 'to be' It forms its present as follows:

homi homa hosi hotha hoti honti

Other roots belonging to this class are those terminating in  $\bar{a}$ . like  $y\bar{a}$ , 'to go,'  $v\bar{a}$ , 'to blow,' which have entirely the same inflexion as in Skt., only that they shorten the \(\bar{a}\) in the third pers. pl., yanti=Skt. vanti. Besides, the root va may follow the third class, as in yayanti, M. v. 9, 4. Thā=sthā, 'to stand,' forms its present thāti and titthati, e.g., thāta, Dh. 123, samthāti, Dh. 429; form dā we have a present, dāti, Kacc. 264, imper, first pers. pl. anipadāmase, Jāt. iii. 120 (explained by the commentary nikārapakārā upasaggā dāmase ti attho). Pajjhāti, Jāt. iii. 534, is most probably derived from jhā=kshā, 'to decay,' comp. pajjhāyi, pajjhāyasi, Suttavibh. i. 19, ii. 5. From dhyā we have pajjhyāyanto, 'groaning,' Mil. 5, if Trenckner's translation is correct, and according to Senart, Mahāvastu 377, also the present āvajjati and āvajjeti, 'to consider,' which would have dropped the aspiration. From snā, 'to bathe,' we have an imper. nahāhi belonging to this class, Jāt.ii. 325. From thāti and dhāti=dadhāti we come to the forms thahati and dahati which are in very fregent use in Pāli.

Of verbs terminating in i we have to mention here besides i and  $c\bar{c}$ , which belong to this class also in Skt.,  $n\bar{i}$ , 'to lead,' $c\bar{c}$ , 'to lean,' ji, 'to conquer,'  $d\bar{i}$  and  $d\bar{i}$ , 'to fly.' I seems to form its present very much as in Skt., for the first and second pers. pl. of course we get *ema*, *etha*, instead of imas, ita; for the third pl. Childers adduces a form samudayanti form Brahmajālas. Atth. which is formed from samudenti by false analogy. In the present vyapanenti quoted by Minayeff, p. xxxii. from Udānagāthā and in vassūpanāyika, M. iii. 2, 2, we have derivations from i with the prepositions apan and upan respectively, which make them look as though they were derived from  $n\bar{i}$ , comp. Vinaya Texts, i. xxxvii. A present ayati belonging to the bhūclass is given in Dhm., but has not yet been found in any text.

Çi form its present semi, Cariy. ii. 2,3, third pl. senti, Dh. 28; in the part. we have semāna. Jāt. i. 180, Mah. 49; sayamāna, Att. 218.

Nī forms *neti* and *nayati* according to Kacc. 261; part, *upanento*, Dh. 154; gerund *apanetvā* instead of <sup>o</sup>nītvā by false analogy.

Çri forms a presen apasseti, C. vi. 20, 2, comp. apassena for apaçrayana.

Ji has the present jayati, jeti and jināti, Kacc, 261; opt. jeyya for jayeyya, Dh. v. 103.

Dī (and lī) forms its present deti, Gr. 136. There are two compounds of this root, addeti and uddeti, the explanation of which causes considerable difficulty. Oddeti occurs the signification 'to place, to lay nets,' Jāt. i. 274, ii. 443, 5, 52, 153, 182, 238, Suttavibh. i. 22 (v. l. oṭṭi, Buddh. odḍhī ti abhimukhaṃ ṭhapesi), uddeti, 'to cast a net,' Ang. i. 24, 4. Morris, in a note to this last passage, identifies the two forms, and he is no doubt right, but I believe uddeti to be the original one, and oddeti, 'a later change'. Instead of omāna, Jāt.ii.443, vs.1, we ought to read demāna. A causative of the same root is uṭṭepeti, 'to frighten away,' M. i. 51, comp. uddāpita, Çatr. 10, 91, and perhaps niddāyati, Jāt. i. 215, niddāpeti, C. vii. 1,2; but these two might also belong to dā, dyati. In Prāk. we have uddihiyaṃ, Pālyal. 182.

The root brū, which is generally given as paradigm of this class in Skt., shows the following conjugation in Pāli:

Attanonada

1 arassapada		ritanopada	
brūmi	brūma	brave	brūmhe
brūsi	brūtha	buūse	brūvhe
brūti, bravī	bravanti	brūte	bravante

Daraccanada

The root han has *hanti* in the third pers. sing., but *hanati*, Mil. 220, *hananti* in the third pl., Dh. 64, for Skt. ghnanti.

Vac forms vatti and vacati, according to Saddanīti, but these forms have not yet been found in any text.

The root as, 'to be,' has the following inflexion:

asmi, amhi	asma, amha
asi	attha
atthi	santi

At Jāt. iii. 309 we have a curious first pers. pl., amhase, which looks like an imperf. attanop. but is used like a present.

The synonymous root acchati is proved beyond doubt to belong to ās, from which it proceeds through the aorist acchi, see Trenckner, Pāli Misc. 61, Pischel, Gött. Anz. 1865, p. 627, Torp. 88. We find the compound samacchati, in the original signification, 'to sit down,' Jāt. ii. 67. The aorist acchi occurs Dh. 158, Suttavibh. i. 35.

The present pāheti, 'to send,' also belongs to this class, although

it is given by the grammarians among the *svādayo* and *tanādayo*. The ā in the first syllable shows that it is only deduced by false analogy from the aorist *pāhesi*=Skt. prāhaishīt, but it is considered as a genuine present in Pāli.

As a paradigm of division (d) of the first class, I give here the conjugation of the root hu, 'to sacrifice.'

juhomi. juhoma.
juhosi. juhotha.
juhoti, juvhati. juhonti, juvhanti

Besides, there seems to be a new root, *juh* taken from the special base, and inflected with the vowel a, as in *juhamāna*, Jāt. ii. 399; and from this is also derived the subst. *juhana*, 'sacrifice,' Jāt. i. 493, wrongly spelt *jūhana*, Gr. 16.

Other roots belonging to this class are those ending in  $\bar{a}$ , some of which I have already mentioned:  $h\bar{a}$  forms the present *juhāti*, but we find also *vijahati*, Dh. 99, 261, from a new root, *jah*.

Dā and dhā can also have the regular forms dadāti and dadhāti, besedes the new ones mentioned above, and from dadāmi is also derived the contracted form dammi=dadmi, pl. damma, Dh. 123, 129; Jāt. i. 127, etc. Besides we have a present demi, which shows exactly the same inflexion as emi, 'I go;' Childers derives it either from the Skt. dayate, or by false analogy from the imper. dehi detu, but I confess that none of these explanations seems to me quite satisfactory.

From dhā we have *nidheti*, Kh. 12; *nidhetum*, Khuddasikkhā, xxxi. 2; and besides a distracted form *daheti* (analogous to *dahati* from *dhāti*) in the aorist *pidahesi*, Mah. 4, and the future *paridahessati*, Dh. v. 9. Pass. *antaradhāyati*.

From sthā we have the imp. *uṭṭhehi*, Rev.v.3; Dīp. 60; *niṭṭhāyati*, C.v.26, generally *niṭṭhāti*. From hnu, Kacc. 135 gives the present *hanute*, but the Dhm. omits this root altogether.

The division (a) of the first class has considerably encroached on most of the other classes. Nearly all the roots terminating in u or a consonant, and belonging to the second class of the Skt. have migrated into this class in Pāli: lih forms lehati, Jāt. i. 19; lehentā, Jāt. ii. 31; Suttavibh, i. 46; duh: dohati, Kacc. 144; but duhanti, ib. 141; rud: rodati and rudati, Jāt. iii. 214; rodāmi, Das. Jāt. 33. Vetti, from vid, 'to know,' is entirely lost in Pāli, and generally replaced by jānāti. We

find, however, a present *vindati* formed according to the 6th class of the Skt., and *vijjati*=vidyate; besides *vedeti* and *vediyati*, Mil. 60; Suttavibh. ii. 167; Part. *vedayita*, Mil. 60. From jāgar, 'to watch,' we have the present *jāgarati*, Dh. 8, 11, 41, and *jaggati*, Dh. 201; Jāt. ii. 403; comp. the Prāk. forms jāgaraï and jaggaï, Hem. iv. 80; from daridrā, 'to be poor,' the Dhm. gives *daliddati*; but this form has not yet been found in any text. In some cases the form *e* is only due to false analogy, as in the fut. *gahessati*, and aorist *aggahesi*, from gṛh, see Childer's 'Corrigenda,' s. v.

Daç, 'to bide,' forms dasanto, dasitvā and damsento, damsetvā, dasāpetvā, damsāpetvā, Ten. Jāt. 42, 43, 44, 54.

Dhmā, 'to blow,' forms *dhamati* and *dhanreti*; besides we have a reduplicated form *dhamādhamayati*, Mil. 117; *niddhamana*, 'a watercourse,' is also derivd from this root.

The root  $v\bar{v}$  or ve, 'to weave,' is given in the Dhm. among those that follow the first conjugation, and indeed we find an infinitive vetum, C. vi. 2, 6; a present *abbeti* occurs, Jāt.iii.34, where Fausböll has altered it into *appeti*, comp. Trenckner, P.M. 64. A new present *vināti*, formed according to the fifth class, occurs Jāt. ii. 302; and besides we have the regular passive  $v\bar{v}yati$  or viyyati, Pāt. 11.

Vad, 'to speak,' supplying the lost special tenses of vac forms its present vadati and vadeti. The Dhm. only gives a root vad with the signification 'to praise' following corayāmi. Besides, vajj may be substituted throughout all the tenses, according to Kacc. 254 (derived no doubt, from the opt. vajju. Jāt. ii. 322), e.g. vajjāsi, Jāt. iii. 443, comp. vivādyanti, Mahāvastu, p. 378.

Tas=tras, 'to tremble,' forms its present regularly tasati, Dh. 24; we find, however, an aorist vitthāsi, Kamm. 4, a present vitthāyati, M. i. 76, 3; C. x. 17, 3 and a participle vitthata Mil. 36; for vitthata com. Prāk. hittha, Hem. ii. 136, P. Goldschmidt's remarks 'Setubandha,' ii. 42; vitthāsi reminds one of a form trāhi, Lalitavistara, p. 286, which I have corrected into trāsi (Der Dialekt der Gāthās des Lal. p. 284), and vitthāyanti seems to be formed after the false analogy of this aorist in the same ways as pāheti from pāhesi.

Tud forms vitūdati with lengthening nittūdana, Mahāparin. 54, besides vitudam (?) Dh. 146; from khan, 'to dig,' we have an irregular inf. nikhātum, Cariy. iii. 6, 16.

Ruh forms abhirohati, abhirūhati with lengthening, and even abhiruhati

Bhī, 'to fear,' forms bhāyati, comp. Hem. iv. 53. The reduplicated form bibheti is entirely lost in Pāli. The Imper. bhātha, Jāt. i. 26, is contracted from bhāyatha.

Svap, 'to sleep,' from supati; Part. sumanta, Mil. 368.

Vyath, 'to tremble,' is also given under this class in Dhm., but I have only found it under the form *vedhati*. At C. vii. 4, 6, Oldenberg has suggested to read *vyathati* for the senseless *vyādhati*. The causative is *vedheti*, Trenckner, P.M. 76.

The second class of the Pāli, corresponding originally to the seventh of the Skt. forms its present after the fashion of those verbs of the sixth class which adopt n: so we obtain from rudh a present  $rundh\bar{a}mi$ , just as we have from vid,  $vind\bar{a}mi$ , Kacc. 238 gives besides the forms rundhiti, rundhiti, rundheti, of which the last occurs also in the imper. rundhehi, Cariy. iii. 10, 7 (where, however, the corresponding passage of the Jāt. i. 332, reads randhehi). About the passive rumh, see above, p. 26.

The other roots belonging to this class, as muc, 'to realease,' chid, 'to cut,' lip, 'to smear,' bhuj, 'to eat,' are regular.

The third class comprises the verbs that take the suffix ya (with assimilation of y to the consonant terminating the root). Some of the verbs belonging to this class are real passives, as vijjati, 'to be found, to exist,' pass. of vidati; udriyati, 'to go to ruin,' from dar, dṛṇāti, M. iii 8, 1; Suttavibh. ii. 254. Others have adopted the meaning of actives, as bujjhati from budh, 'to know, to understand,' sibbati from sīv, 'to sew,' dajjati is most probably not the Skt. dadyate only given by grammarians, but a derivation from the opt. dajjā, just as vajjati from vajjā (see above, p. 74).

Mar forms the present marati and mīyati or miyyati. At Saddhammop. vs. 139, we find marīyati, which certainly is not classical.

Jar, 'to decay,' forms jīyati or jiyyati and jīrati; besides we have jūrasi in a passage quoted by Childers, J.R.A.S. xi. 110, from an unknown author. Comp. Prāk. Jūraï, Hem. iv. 132.

*Çar,* 'to throw down,' froms *seyyasi*=çīryasi, Jāt. i. 174. Part. visiņņa=viçīrņa.

 $L\bar{u}$ , 'to reap,' forms  $l\bar{a}yeti$ ,. Das. 31, Jāt. i. 215;  $l\bar{a}yeti$ , Suttavibh. i. 64;  $l\bar{a}veti$ , with change of y to v, Kacc. 262;  $l\bar{a}payati$ , Mah. 61, and the regular lunāti, Kacc. 238.

Gā, 'to sing,' forms gāyati, Dh. 85; imper. gāhi, Jāt. iii. 507.

The fourth class corresponds to the fifth of the Skt.; but most of the verbs belonging to it can also form their present according to the ninth, by adding the suffix nā to the root. From cru, 'to hear,' we have the present sunoti and sunāti, imper. sunohi and sunāhi, inf. sunitum, Mil. 91. Form ci, 'to collect,' we have cināti, Dh. 209; vinicchinati, Dh. 377; ocināyatu, Cariy. iii. 6, 7; samcinoti, Att. 200; part. samcayanto, according to the first class, Mah. 127. Roots ending in a consonant can assimilate the n to this consonant, or insert u before the Suff. nu or  $n\bar{a}$ , e.g. pappoti, pāpuṇoti and pāpuṇāti, from  $\sqrt{a}$ p, 'to attain,' sakkoti and sakkunāti (where the second k is due to the false analogy of sakkoti), from  $\sqrt{c}$ ak, 'to be able;' sakkāti occurs Saddhammop. v. 385, and a shortened form sakkati is induced by Childers from Nāvā S. and Saddanīti.

Gar, 'to sound,' forms anugiṇāti = anugṛṇāti, 'he answers,' Kacc. 139. Besides we have uggirati, 'to rattle,' Jāt. i. 150; Pāt. 18.

Abhisambhuṇoti, 'to obtain,' Lotus, 313, Pāt. vii., is referred by Childers to be root bhṛī of the Dhātupāṭha, and this explanation is adopted with some hesitation by Senart Mahāvastu 406. The Dhm. gives an especial root sambhu.

Sumbhoti, Kacc. 238, is perhaps identical with Skt. çubh, çubhnāti, 'to kill,' comp. Mahāvastu, 381. The Dhm. gives a root sumbh, 'to beat,' following the first class, and Jāt. iii. 185, we have sumhāmi, v. 1. sumbhāmi explained by paharāmi.

Form var, 'to cover,' we have several forms according to this class; Trenckner, P.M. 63, gives the following: vanumhase, Jāt. ii. 137; apāpuṇantı, It. 84, v. 2; vaṇomi, Jāt. 513, v. 14; āvunitvā, 'having pierced,' Carıy. iii. 12, 2; saṃvuṇoti and saṃvuṇāti, Kacc. 238, But it can also follow the first class as vivarati (vivuṇātı seems not to exist), saṃvarati, Mil. 152; pāpurati and pārupati, 'to dress;' avapurati, F. J. 29; avāpuriyati, Jāt i. 63 (comp. avāpurana, 'a key,' Ab. 222).

The fifth class corresponds to the ninth of the Skt., but includes also some verbs belonging originally to other classes. The Pāli grammarians reckon among this class several verbs which originally belong to the fifth class of the Skt., like cināti, 'to collect,' dhunāthi, 'to shake,' Skt. cinoti, dhunoti. About jināti see above, p. 72. From pū, 'to purify,' we have opunāti, Dh. v. 252; Jāt. i. 467; Mahāparin. 49. From kiṇāti, 'to buy,' we have an irregular inf. ketum, Jāt. iii. 282.

Mush, 'to steal,' forms its present *musati*, Ras. 32; pamussati derives most probably not from must but from *smṛsh*, see above, p. 40.

 $A\varsigma$ , 'to eat,' forms asnāti, Mettānisaṃsā, vs. 8; imper. asnātha, Mahāparin. 59.

Mā, 'to measure,' forms mināti, caus. mināpeti, Jāt.ii.378; nimimhase, Jāt.ii. 369, Dh. 417.

Badh forms bandhati instead of badhnāti with a metathesis similar to that of rundhati=runaddhi; lag, 'to stick,' forms laggati=lagnāti, besides lagati after the first. Form math, 'to grind,' we have abhimatthati= abhimsthnāti.

 $J\tilde{n}\tilde{a}$  forms  $j\tilde{a}n\tilde{a}ti$  regularly; from grh we have  $ganh\tilde{a}ti$  and ganhati, Dh. 160.

Other verbs following this class are mun=man, 'to think,' in munātı, comp. Hem. iv.7; Fausb. S. N. 169: and thun=stan, 'to thunder' in thunanti (meaning 'to proclaim,' which points really to a confusion of the roots stan and stu, as one would think from Dhm). Rev.3; anutthunāti, Dh. 28, 323. From the same root we have thanayam, Mahāsamayas. vs. 23; thanita, Att. 210; Jāt. 1. 64. nitthananta, Jāt. ii. 362; nitthanamāna, Jāt.1.463.

The sixth class corresponds to the eighth of the Skt. In Pālı, however, in this case the root kar, 'to do,' can form its present quite regularly in the following way:

karomi. karoma. karosi. karotha. karoti. karonti.

Besides, we have a form *kummi* for the first pers. sing. Jāt. ii. 435, to which we may compare kurumi, Lalitavistara, 270. In the attanopada we have *kurute*, Dh. 9, 39, Mah. 219; and, besides, *kubbati*, Kace. 261; *vikubbati*, Jāt. iii. 114.; *tan* has *tanomi* regularly.

The Dhm. reckons several more roots to this class, fo which some have been dealt with before, and others do not occur in any text, so that we need not mention them here.

The seventh class comprises the denominative verbs, the causatives, and a few primitive verbs, which have migrated into it from other classes. the inflexion fo these is the same as of the verbs terminating in i or  $\bar{i}$  which belong to the first class, as ji.  $c\bar{c}$ ,  $n\bar{c}$ , etc,  $c\bar{c}$ ,  $c\bar{c}$  and always be contracted into  $c\bar{c}$ , and also  $c\bar{c}$  of the past and future

undergoes very often the same change. Even verbs in āyati can be contracted, as paleti for palāyati, Dh. v. 49.

Among this class I also reckon verbs like āgilāyati, 'to be weary, to pain,' C. vii. 4, 2, which is given by the Dhm. as belonging to the third. A doubtful word is saṃkāyati, C. x. 18, with the v. 1. sahāyati.

Primitive verbs that occasionally take the suffix of this class are vac in *vacehi*, Dh. 159. vad in *vademi*, *vadehi*, Ras. 21, *dajj* in *dajjehi*, M. vi. 23, 3; Suttavibh. i. 217, tud in *vitudeti*, Suttavibh i. 105. About *vediyati* and *vedayita* see above, p. 74.

## **Imperative**

Parassapada		Attanopada		
mi	ma	e	mase	
hi or°	the	ssu	vho	
tu	nti	tam	ntam	

Mi is most probably transferred from the present by false analogy. In the second person the short from without suffix is not so frequent as in Skt. We find hi also in such cases where we are not accustomed to see it in Skt., as in gaṇhāhi for gaṇha=grhṇa. From gacch we have gacchahi, Kacc. 248, besides gacchāhi. Paṭimāse, Dh. v. 379, is contracted from paṭimāsaya. The termination tha of the second pers. pl. is evidently taken from the present, e.g. etha, passatha, Dh. v. 171, brūtha, Jāt. iii. 520. From aç, 'to eat,' we have asnātha Mahāparin. 59.

The termination ssu of the second pers. sing. attanop., derived from Skt. sva, is very frequent even in verbs which follow the parassapada inflexion, e.g., bhavassu, Dh. v. 371, pilandhassu, Mil. 337, āsassu, 'relate,' Gr. 118 for āsasassu, comp. Kacc. 288; third pers. labhatam, Mahāpar. 62. The termination mase of the first pers. pl. is either very old or very modern (comp. for the first eventuality Kuhn, p. 101, for the second, Torp, p. 47); besides we have one instance of a form terminating in maham, gacchāmaham, Dh. 86. For the curious form in vho of the second pers. pl. (we would expect vham=Skt. dhvam) I can only adduce one example, nivattavho, Jāt. ii. 358.

The form of the root is the same in the imperative as in the indicative. Thus we have from cru, second pers. sing., sunohi Att. 134; from kar, second pers, sing, karohi, Dh. 42; besides kuru, Mah. 18, 61, second pl. karotha, first pers. pl. attan. karomase, Jāt. ii. 258.

From dā we have the Skt. form dehi, besides dadāhi, Jāt. iii. 109; dajja and even dajjehi, M. vi 23, 3.

From as a second pers. sing. āhi is given by Childers and Minayeff, but has not yet been found in any text. The form is always expressed by bhava, bhavassu, or hohi, Dh. 187.

About the existence of the attanop. forms of kar and dā given by Minayeff, section 178, 179, I feel very doubtful.

### Subjunctive

The subjunctive in Pāli has been discovered by Pischel, K.Z xxiii. 424, who adduces a few examples from Dh. and Jāt. It differs from the indicative only by the lengthening of the vowel a. Farther instances are paṭibhaṇāti, Jāt. iii. 404, hanāsi, Jāt. iii. 199, and perhaps dahāsi, dahāti, Fausb. S.N. 161, 169.

### Optative

Parass	Attan	opada	
eyyāmi, e, eyya	eyyāma, ema	<b>e</b> yya <b>ṃ</b>	eyyāmhe
eyyāsi, e, eyya	eyyātha, etha	etho	eyyavho
eyya, e	eyyum	etha	eram

This form of the optative originated from contraction of the optative suffix  $\bar{\imath}ya$  with the a of the first class, but it is in use with the other classes as well. When stems end in a vowel, this vowel is dropped before the e of the termination, as, e.g., dadeyya, and even deyya, from  $dad\bar{a}ti$ .

Roots terminating in  $\bar{a}$ , and following division (c) of the first class form their optative by inserting y, as  $y\bar{a}yeyya$ , from  $y\bar{a}$ , Pāt. 110,  $nh\bar{a}yeyya$  from  $nah\bar{a}=sn\bar{a}$ ,  $nibb\bar{a}yeyya$  from nirvā, 'to be extinguished;' from the last we have besides an abbreviated form parinibbaye, Das.6.

The forms of the sing. in e are requent enough in older texts, as ānaye (first pers.), Jāt. i. 308; labhe, Cariyāp. i. 1, 9; rode, Jāt. iii. 165; nivase (first and second pers.) Jāt. iii. 259, 262; pāpune (third pers.) C. vii. 4, 8; dade, Cariy. i. 3, 8. In Khuddasikkhā we find even a third sing. de.

The termination eyya of the first pers. originated from eyyam after the nasal had been dropped; it is a form of the parassap. identical with the Skt. eyam, as we can see from instances like deseyyam, Dhp. 119, puccheyyam, Pāt. 1, etc.

The first sing. in *eyyāmi*, as far as I know, is only given by grammarians as *heyyāmi*, *bhaveyyāmi*, *huveyyāmi*, from Rūpasiddhi, at Alwis Introd. 48, in the second we have *e* and *eyyāsi*, as *sikkheyyāsi*, Jāt. i. 162, *ādareyyāsi*, Dh. 248, once *eyya* in *yājeyya*, Jāt. iii. 515; in the third *e* and *eyya*. One instance of the fuller form *eyyāti* occurs: *jāneyyāti*, C. vii. 3, 4. In the first pers. pl. we have *emasi*, *emu*, and *ema*, as *vidamemasi*, Jāt. iii. 261, *passemu*, Jāt. iii. 495, *jānemu*, Kasībhāradvājas. vs. 1, Dh. 96, and *dakkhema*, Mahāsamayas. vs. 25; generally *eyyāma*.

In the second pl. we have only one instance of the shorter form samāsetha in the phrase sabbhir eva samāsetha; besides we have eyyātha in āgameyyātha, Cariy. i. 8, 5, samvatteyyātha, Dh. 215. In the third pl. we have always eyyum=Skt. eyus.

The second sing. attanop. in *etho*, and the third in *etha*, are formed after the old fashion=Skt. ethās, eta; the third is very frequent also in such verbs which otherwise follow the parassap. inflexion, as *rakkhetha*, Dh. v. 36, *abhittharetha*, v. 116, and in passives, as *jayetha*, Dh. v. 58, from √jan. Besides, we have *āgaccheyyātho*, *manasikareyyātho* given by Alwis, Cat. 184, from Moggallāna's grammar. The first and second pers. pl. do not occur in any text, but the third is frequent, as *bhaveram*, *gaccheram*, etc.

Shortened forms of the regular opt. occur of some roots in  $\bar{a}$ , as sthā and dhā: adhiṭṭheyya for adhiṭṭhāyeyya, Khudd. 16, apanidheyya, Pāt. 16, and so we ought to read parinibbeyam instead of parinibbāyi, Dīp. i. 24. From roots ending in i we have niccheyya, Dh. v. 256. for nicchayeyya, from nis+ci, anabhineyya, Pāt. 4, vineyya, Khudd. 31, from nī; jeyya from ji, Dh.v.103; from i we have abbheyya, Pāt. 6, second eyyāsi, Pāt. ii. 535. From  $h\bar{u}=bh\bar{u}:huveyya$  and hupeyya according to the Burmese writing, M. i. 6, 9; Trenckner, Pāli. Misc. 62; besides, we have a contracted form heyya, only known from Rūpasiddhi ap. Alwis Introd. 48. but yet found in any text.

The optatives of the seventh class can be shortened in two different ways; from *corayeyya* we get *coraye* on one side and *coreyya* on the other; from *bhāvyāmi* contracted third sing. attanop. *bhāvetha*, Dh. v.87 for *bhāvayetha*.

Besides this regular form of the optative, which corresponds to the optative of the Skt. first principal conjugation (comprising the first, fourth, sixth, and tenth classes), we have a few rests of the optative of the second principal conjugation.

Some of the roots ending ending in  $\bar{a}$  can form, besides the regular optatives of the type dadeyya and deyya given above, the old  $dajj\bar{a} = \text{Skt.}$  dadyāt, Dh. v. 224; first pers. dajjam Mah. 63.  $dajj\bar{a}ham$  M. iii. 8, 1, and  $dajj\bar{a}mi$ , Mah. 8. From this optative  $dajj\bar{a}$  was formed the verbal base dajjati (see above, p. 75) and this can again take the terminations of the optative, as in dajjeyya, Kacc. 256, anuppadajjeyya, Pāt. 11; first pl.  $anuppadajjeyya\bar{a}ma$ , Pāt. 11.

Form jñā we have  $j\bar{a}niy\bar{a}$ , corresponding to Skt. jānīyāt with shortening of the  $\bar{i}$  and contracted from this  $ja\bar{n}\tilde{n}\bar{a}$ ; besides a form after the analogy of the verbs with vowel a, as  $j\bar{a}neyya$ .

Form as, 'to be', we have an old optative which preserves throughout the a of roop dropped in Skt.:

assam	assāma
assa	assatha
assa, siyā	assu, siyum

The first pers. assam occurs, Dh. 186 the second assa, Jāt. iii. 515, in the third both forms are equally frequent; assāma is found in Saccavibhanga, assu, Dh. v. 74, Jāt. ii. 425.

Form vad, 'to speak,' we have a second sing. vajjāsi, Jāt. ii. 443; third pl. vajju, Jāt. ii. 322, explained by the regular forms vadeyyāsi and vadeyyum. By false analogy of this opataive we have a present vajjāmi (just like dajjāmi, from dajjam), vajjemi and a secondary optative vajjeyya given by Kacc. vi. 4, 19.

Kar forms its opt. in the parassap. third pers. sing. kare and kareyya, Dh. v. 43, Kacc. 263, pl. kareyyātha, Dh. 147, kareyyuṃ, Dh. 187; attanop. kubbetha, C. vii. 4, 8. Besides, we have an old opt. kayirā or kayira from karyāt instead of kuryāt, attan. kayirātha or kayiratha.

 $\bar{Ap}$  forms the old opt.  $pappuyya = pr\bar{a}pnuy\bar{a}t$ , Das. 37, C. vi.4, 4.

### Imperfect and Aorist

#### First formation

Parassapada		Attanopada	
aṃ a	amha	•••	amhase
a o	attha,	ase, ū	avhaṃ
āа	um	attha	atthuṃ

#### Second formation

Parassapada		Attanopada	
iṃ	imha	•••	imhe
i	ittha	ise, ittho	ivhaṃ
i	imsu, isum	ittha	

The first form belongs to the imperfect and simple or strong aorist, which cannot be distinguished in Pāli, the second to the weak aorist, which is formed by adding the root as, 'to be,' as in Greek.

A third formation is only distinguished from the second by the plus of an s, so that we have sim instead of im, etc. It is used mostly in verbs ending in vowels, and in causatives.

Examples of the first sing. in am: avavam, Dh. 242, addam and addasam, 'I saw,' Jāt. iii. 380, Anecd. 35, once with the present termination addasāmi, Oldenberg, K.Z. xxv. 320, addasa, M. ix. 1, 5, where the reading of the MSS. ought not to be changed; from dā we have adam, Jāt. iii. 411. Cariy. i.9, 30; from bhū ahum, Jāt.iii.411; from cru, assum, Jāt.iii.542.

Second pers. in o=as: pamādo, Dh. v. 371; āsado, Jāt. i. 414, iii. 207, C. vii. 3, 12; in a: avaca, Pāt. 99; and from a reduplicated aorist identical in its formation to the Skt. avocam: avoca, Dh. 185, voca, Dh. v. 133.

In the third pers. we have  $\bar{a}$  and  $a=at:abhav\bar{a}$ ,  $ahuv\bar{a}$ , Buddha 443, addasa,  $udacchid\bar{a}$ , Anecd. 77, and with a curious doubling of the d, unexplained as yet, acchidda, Dh. v. 351;  $amar\bar{a}$ , Jāt. iii. 389 (v. 1.  $amar\bar{i}$ ), 'he died.'  $Ajjhagam\bar{a}$ , Ras. 78, papato, C. v. 20, 5, is the only instance known of o in the third.

In the first pers. pl. we have amha or mha in adamha, Jāt. ii. 71; assumha, Jāt. ii. 400; vuṭṭhamha, Dīp. 79; ahumha, Dh. 105; besides a form corresponding to the Skt. addasāma, Dh. 96.

Second pers.: ahuvattha, Dh. 105; avacuttha, Pāt. 5; dattha, Jāt. ii. 181.

In the third pers. we have  $\bar{u}$ , u and um, all representing the Skt. us. Examples in um are very numbers;  $\bar{u}$  we have in  $ajjhag\bar{u}$  from adhigacchati, Jāt. i. 256,  $anvag\bar{u}$  Das. 36; and u in  $\bar{a}gu$ , passim in Mahāsamayasutta. The following instances deserve notice because they form their aorist in Skt. with s: aggahum; Mah. 253. upaṇhahum, Mah. 132, 256, randhayum, Dh.v.248, abhikkāmum, Mahāsamayasutta vi. 4; adakkhum, ib. vs. 3 corresponds to adrākshus.

The second and third sing. of the attan. in ase, attha, are influenced by the corresponding forms of the s acrist in ise ittha (see later on). Example are suyattha, Dh. 86, adattha, Jāt. ii. 166. Besides, we have the regular form in tha=Skt. ta for inst. avocatha, Mah. 132, adassatha, Mah. 199, khīyatha Cariy. iii. 10, 1, passive ajāyatha, Mah. 24.

Mhase is also influenced by the s aorist, and besides it is a present termination; instances are ahuvamhase, akaramhase, F. Jāt. 13, 38; vamimhase, Jāt. ii. 137; nimimhase, Dh. 417; Jāt. ii. 369; the form of the imperfect mhasa occurs in akaramhasay, Dh. 147. The second pl. in vham corresponds to the Skt. dhvam, the third in atthum is formed by false analogy from the sing. attha. Of these I have not found any instance in texts.

Brū forms abravi and abruvi, pl. abravum and abruvum.

From gā we have a second pers. sing.  $\bar{a}g\bar{a}$ , Fausb. S.N. 161, corresponding to Skt. agās, a third  $accag\bar{a}$ ,  $upaccag\bar{a}$  and  $ajjhag\bar{a}$ , Dh., corresponding to agāt. From sthā a third person  $atth\bar{a}$ , Mah.78.

Form kar we have the regular forms, and besides an abridged aorist  $ak\bar{a}$ , Mah. 23, 37, corresponding to the vedic akar. Other forms of the same root will be given later on.

Labh forms an aorist *alattham*, Jāt. i. 141; second pers. *alattha* or *lattha*, Dh. 240; third *alatta*=alabdha (attan). The first and second pers. are formed after the analogy of the third.

In the second pers. we have i or  $\bar{i}$  in poetry when a long syllable is required, as in  $\bar{a}diyi$ , Suttavibh. i. 44;  $kand\bar{i}$ ,  $gil\bar{i}$ , Dh. v. 371;  $agam\bar{i}$ , Mah. 6. In the third person we have the same termination in  $\bar{a}vi\bar{n}ji$ ,

Suttavibh. i. 127; vedī, Dh. v. 423; abhinimmi from abhinimmāti, Dh. 315; akari from kar, F. Jāt. 13; or a new form in isi, as agacchisi, Mah 206; antaradhāyisi, Mah. 112; ajāyisi, Mah. 18,20.

In the first pers. pl. we have imka = ishma, as in sarimha, Dh. 188; labhima, Dh. 236;  $ap\bar{a}yimha$ , Jāt. i. 360; in the second ittha = ishta, as in saddhayittha, Dh. 123; dadittha, Dh. 238; and in third imsu or isum = ishus.

In the attanopada the second pers. ise as given by the grammarians, is not found in any text (just like ase of the first formation); we find instead *ittho*=ishthās in *atimaññittho*, Ten. Jāt. 40; *asajjittho*, Jāt. i. 297; *akkamittho*, Bv. ii. 53 (always spelt with the dental group)

In the third pers. we have *ittha*=ishṭa, as in *pasārayittha*, Jāt. i. 135; *āsaṅkittha*, Jāt. i. 151, and several passive forms given by Kacc. 289-293; comp. similar forms in the Mahāvastu, Senart's ed. p. 378.

In the first pers. pl. we have *imhe*; second, *ivhaṃ*; but these forms have not yet been found in any text. The third pl. terminates in *iṃsu, isuṃ*, or in *uṃ*, as *upagacchuṃ*, Mahāparin. 21 (see above, p. 82).

The first sing. of the third formation terminates in the sim, as aññāsim, Pāt. 95; cintesim, Dh. 206; or si, as cintesi, Cariy. i. 8. 1; adāsi, Cariy. i. 9, 47 paccanññāsi, M. I. 6, 27, 28, where the reading of the MSS, should be followed.

Second pers. si, as akāsi, Suttavibh. i. 44. with assimilation potivekkhi, M. vi. 23, 8, and third the same as adhosi, Fausb. S. N. 150; nimāsi, Mah. 27; avatthāsi, Suttavibh. i. 79, from avattharati, padhūpāsi, M. I. 15, 4, Suttavibh. ii. 109, 132. Udānesi, Jāt. 141; with assimilation sakkhi, Jāt. iii. 424; akkocchi, Dh. v. 4; acchecchi, Buddha, 441 (spelt wrongly acchejji, ib. 434); from kar, akāsi = akārshīt; from har, vihāsi.

First pl. simha=sishma in adāsimha, Jat. iii. 120; second sittha=sishta.

The third pl. in simsu is not found, but is replaced by a form in sum or msu, corresponding to Skt. sus, as in adamsu, pāhesum, ārocesum. from sthā we have aṭṭhaṃsu, Dh. 233, and uṭṭhiṃsu, Mah. 166; from jñā, aññiṃsu, Jāt. iii. 303; from khyā, akkhaṃsu, Jāt. iii. 481; from vā, parinibbiṃsu, Dīp. 51; from dhā, samādahaṃsu, Mahāsamayasutta vs 2; from kar, akaṃsu.

After the false analogy of the aorists in āsi we find also some aorists of verbs ending in a consonant, as agamāsi, pl. agamaṃsu (not agamaṃsuṃ, which is a mistake of the Burmese MSS.); addasāsuṃ, Jāt. ii. 256, and adassaṃsu, Papañca Sūdanī, ap. Alwis Introd. 73. Even the perfect āha,' he spoke, 'follows this inflexion, as we have āhaṃsu, Jāt. i. 121, comp. āhaṃsus of the Mahāvastu ap. Minayeff, Pāt. xliii. Another āhaṃsu is found in payirudāhṃsu, 'they uttered,' from √har, comp. Weber, Hāla, 184; Ind. Streifen iii.396.

The imperfest of the root as, 'to be,' is entirely formed after the analogy of these aorists:

āsiṃ ā	isi.	āsiṃ
āsi.		āsittha.
āsia.		āsimsu.

The first pers.  $\bar{a}si$  occurs Cariy. i, 4, 1. For the third we find a form ehi, Bv. xvi. 7, which looks like an abbreviation of the fut. of i, e, etiti, but perhaps the reading is incorrect.

#### Perfect

Parassapada		Attanopada	
a. mh.		i.	mhe.
<i>e</i> .	ttha.	ttho.	vho.
a.	u.	ttha.	re.

Verbs ending in consonants insert i between the root and the consonatal terminations. Examples are not very frequent:  $h\bar{a}$ , 'to leave,' forms  $jah\bar{a}ra$ , with a euphonic r, Kacc. 243; child, ciccheda, ib. 242; budh, bubodha, Att. 203; suc, susoca, Att. 212; ah,  $\bar{a}ha$ , third pl.  $\bar{a}hu$ ; Nid, vidu, Mah. 141.

#### Future

Parassapada		Attanopada	
ssāmi.	ssāma.	ssaṃ	ssamhe.
ssasi.	ssatha.	ssase.	ssavhe.
ssati.	ssanti.	ssate.	ssante (ssare).

The termination am of the first sing. attan. is only an abbreviation of āmi in parassap. and occurs frequently in old texts as dassam, bhokkham, Das. 7, 29; hessam, pūrayissam, Ten Jāt. 91. This form is identical with the first sing. aorist according to the second formation in issam, as sandhāvissam, and this is the reason why they have often been mistaken one for the other.

The future may be formed from the root or from the special base. If it is formed from the root the terminations may be added directly, or by the auxiliary vowel i.

(a) Futures formed from the root directly: pacessati, Dh. 9; vicessati, Kacc. 27, both from ci; vijessati, from ji, Dh. 9; dakkhati = drākshyati, √darç, sakkhiti from çak; lacchati from labh Dh. 96 = latsyati for lapsyati (comp. the aorist alattha for alabdha), sambhossāma from bhū, Mah. 28; vacchāmi from vac Khuddasikkhā 174; pavekkhati from viç, Mah. 153; checcham from chid, Jāt. iii. 500 (samucchissatha, Gr. 254, is formed after the false analogy of the other futures in issati): from i we have esam, Jāt. iii. 535, and upessam, Dhaniya S. Childers, s.v. upeti; from han, first pers. pl., haūchema, Jāt. ii. 418, with an e, instead of ā, that I cannot explain. Trenckner takes this and dakkhema, Mahāsamay, v. 25, as optatives of the fut., but this is without any analogy. Āhaūchi, M., i. 6, 8, Trenckner, P.M. 74; bhejjati, Ang. i. 5, 7, is most probably a mistake for bhecchati (like acchejji for acchecchi, above, p. 84).

The future is sometimes used in the sense of an imperfect, as dassāmi, Cariy. i. 3, 4; pariyesissāmi, Cariy. i. 6, 5; pavissāmi for pavisissāmi, from viç, Cariy. i. 9, 56 (pavissāmi as future occurs Jāt. ii. 68). Perhaps these are only aorists with primary terminations like addasāmi (above, p. 82).

- (b) Futures formed from the root by the auxiliary vowel i: āyamissam, Jāt. ii. 284 (and āgamicchati, Dh. ix. 12, formed after the false analogy of dicchati, if it is not merely a blunder); niggahissati, Dh. 96; samvasissare, in a passage of the Apadāna, quoted in Oldenberg's Buddha, 419; labhissati, Dh. 121; nahāyissati from snā; parinibbāyissati, Dh. 333, from parinirvā and parinibbissam, Bv. xxvi. 23, with loss of the root-vowel.
- (c) Futures formed from the special base, mostly by the auxiliary vowel i: jinissati from ji, and cinissati from ci, Dh. 209; āgacchissati, Dh. 84; passissati, Dh. 88, 89; pajahissati, Dh. 311; pahinissati, Dh. 84; pāpunissati, Dh. 101; sunissāmi from çru, Jāt. i. 129; paridadhassati, Dh. 115.

With e in paridahessati, Dh. v. 9; niggahessāmi, Dh. v. 326 (see above, p. 73).

In the 2nd pers. sing., 3rd pers. sing. and pl. we find sometimes i, instead of a, most probably from the y assimilated in the consonantal

group, as sakkhiti for sakkhati, Sadda Nīti sakkhinti, Dhaniya S.; dakkhisi, F. J. 23; dakkhinti, Mah. 83; M. i. 7, 10.

In some futures the sibilant has migrated into h, as  $k\bar{a}h\bar{a}mi$  for karshyāmi, from kar, Cariy. i. 5, 9. Jāt. i. 214;  $k\bar{a}hati$ , Jāt. ii. 443 (besides  $kass\bar{a}ma$ , Mah. 12; kassam in a modern text; I.O.C. 121); comp.  $k\bar{a}h\bar{1}ti$  of the Mahāvastu Minayeff, 109;  $vih\bar{a}hisi$  from vihar, Dh. 68 (besides vihassati, Aruṇavatisutta, v. 2);  $h\bar{a}hasi$ , from  $h\bar{a}$ , Jāt. iii. 172;  $pa\bar{n}n\bar{a}yihinti$ , Jāt. xvi. 1, 5, from prajā $\bar{a}$ , ehiti from i. From  $h\bar{u}=bh\bar{u}$  we have hohiti=bhoshyati and hehiti=bhavishyati which may be further contracted into heti.

A peculiarity of the Pāli is the double future formed from bases like dakkh by the ordinary termination issati. The base dakkh came to be used exactly like a present base as we see from the imperf. dakkim, Jāt. i. 25 (which cannot be identified directly with the Skt. aorist adrāksham); from the present dakkhati, frequent in later texts, from the inf. dakkhitum, m.v. 1, 2; dakkhitāye (not dakkhitāya), Mahāsamayas, vs. 1, and from the causative dakkhāpita, Mil. 119. So we get a secondary future dakkhissati, sakkhissati, Dh. 84; sukkhissati, from çush. 'to dry,' Dh. 234; pavakkhissam from vac, Cariy. i. 1, 2, hehissati, Kacc. 249.

A curious form is dicchatti, Jāt. 450 vs. 7 (dicchati, 'to see', Alwis, Inrodu. 42; evidently derives from dṛç). Trenckner, P.M. 61, folowing Vanaratana derives it from adikshat, but the comm. explains it by dadanti. I think it is the desiderative of dā used as a new root with the meaning of the primitive verb, and this would speak in favour of Weber's explanation of dakkhati and dekkhati as desideratives (see Kuhn's Beitr. vii. 485ff., Insische Streifen xiv. 69ff.). Childers and Pischel (Beitre. vii. 450ff.) explain them as futures, P. and S. Goldschidt derive them from the part. dṛṣhṭa with a change of sounds similar to that in dukkha=duḥstha (see above, p. 27). The secondary base sukkh from çush (see the Causatives) speaks in favour of Goldschmidt's theory. As for pavecchati, Jāt.i.28, Mil. 375, I am unable to decide whether it is really the future of viç or, as Trenckner suggests, identical with payacchati.

#### **Conditional**

Parassapada '		Attanopada	
ssam,	ssamhā.	ssam,	ssamhase
sse, ssa, ssasi,	ssatha.	ssase,	ssavhe.
ssā, ssa, ssati,	ssamsu.	ssatha,	ssimsu.

With regard to the base the same rules apply to the conditional as to the future. Instances are, 1st pers. apapessam, Jāt. ii. 11 (v. 1. pāpeyyaum); 2nd pers., bhavissa ib., agghāpessasi, Jāt. ii. 31, v. 1., for agghāpeyyāsi; 3rd pers., agamissā, Kacc. 263; alabhissa, asakkhissa, Dh. 292; paññāpessa, and abhavissati in a passage of Saṃyuttaka Nikāya Buddha, 443, where Oldenberg wants to change it into abhavissa. For the pl. I can adduce no instances from texts.

#### **Passive**

The passive is formed by adding the syllable ya, already mentioned as characteristic of the third class. This syllable may be added to the root or to the present base, as gacchīyati, Kacc. 263; and gamīyati, Dīp. 70, from gam, 'to go;' vussati and vasīyati from vas, 'to dwell;' hāyati, Dh. v. 364, and hīyati, Kacc. 257, from hā, 'to forsake;' gayhoti and gheppati from grah, 'to take;' tāyati from tan, 'to stretch,' Jāt. iii. 283; Rūp. 37. About vudḍhate from vah, Kacc. 237 (see above, p.36).

The rules about the assimilation of y, which is optional, are given above, p. 48 ff.

The terminations of the passive are those of the attanopada and parassapada without any fixed rule.

An anomalous form of the passive is *sussute*, from çru, 'to hear,' Indische Streifen, iii. 398.

#### Causative

Just as ya is the characteristic of the passive, aya is the characteristic of the causative (being the seventh class). The roots is generally strengthened before this termination, as  $l\bar{a}veti$  from  $l\bar{u}$ , 'to reap,'  $n\bar{a}yeti$  from  $n\bar{\imath}$ , to lead,'  $g\bar{u}hayati$  from guh, 'to hide,' but we have also exceptions to this rule, as cudita instead of codita, M. iv. 16; bhaneti = bhanayati, gameti = gamayati.

The second form of the caustive with p is much more frequent in Pāli than in Skt. It may be formed jar, Jāt. i. 238; bhimsāpeti (v. 1. hiṃsāpeti), from bhī, Pāt. 15; piṃsāpeti from pish, Mah. 175, besides piṃseti, Jāt. ii. 363; jināpeti from ji (present base jin), Kaccāyanabhedatīkā, I.O.C. 91; sukkhāpeti, Dh. 188, from çush (secondary base sukkh, derived from the Part. çushka, in sukkhamāna, Jāt. i. 304); upalāpeti from upalī, M. v. 2, 21; Jāt. ii. 266, comp. Rhys David's Buddhist Suttas, p. 5; suṇāpeti, Dh. 166, from çru (present base suṇ); cetāpeti from ci (through confusion with cit); chejjapeti from child, mil. 90;

 $\bar{a}n\bar{a}peti$  from  $\bar{a}n\bar{\iota}$ . On the difference in the signification of the two forms of the causative comp. Oldenberg K.Z. xxv. 323.

A causative with double p is  $vi\tilde{n}\tilde{n}\tilde{a}p\tilde{a}peti$ , from vij $\tilde{n}\tilde{a}$ , 'to casue to be asked for,' Pāt. 105.

Pivati froms its caus. pāyati and pāyeti, gah : gāheti and gāhāpeti; han ; haneti and ghāteti; sampiyāyamāna, Jat. i. 297, 361, ought to be corrected into sampiyamāna, according to Senart Mahāvastu, 556.

#### **Desiderative**

The desiderative is formed from the reduplicated root, by adding an s:jighacchati from ghas, 'to eat,' sometimes written jigacchati (Grünwedel das sechste Kapitel d. Rūpasiddhi, p. 70); jigucchati from gup; titikkhati from tij; cikicchati and tikicchati from kit; pipāsati and pivāsati from  $p\bar{a}$ ; bubhukkhati from bhuj; sussusati from gup; gup;

#### Intensive

Intensives are also formed from the reduplicated root and sometimes take ya, as daddallati=jājvalyate; lālapatti from lap; kākacchati from kath, Jāt. i. 61, 318, Mil. 85; without ya, but with a nasal in the reduplication syllable, we have cankamati from kram; jangamati from gam, cancalati from cal.

Sākacchati, 'to talk,' Pāt. xv. seems to be formed after the false analogy of kākacchati without reduplication.

#### **Denominative**

Denominatives may be formed with and without reduplication. The terminations are the following:

- (1) Āyati in pabbatāyati, samuddāyati, cicciṭāyati and ciṭicitāyati, 'to splash,' M. vi. 27, 7, Mil. 258; dolāyati, Jāt. ii. 385; tintiṇāyati, Jāt. ii. 243, 244; gaggarāyati, Mil. 3; verāyati, Dīp. 83; gaļagaļāyati, Mahāparin, 48; pariyāyati, Samanta Pāsād. 332; pattiyāyati, 'to believe,' Jāt. i. 426, where Fausb. wrongly has adopted the reading saddim yāyasi, comp. Trenckner, P.M. 79; harāyati, M. i. 63, 1; Suttavibh. i.68.
- (2) *Iyati*, *īyati* in the examples given by Kacc. 233, which I have not found in any text, and besides in *paṭiseniyati*, Fausb. S. N. 64; *ganiyati*, Mil. 114; aṭṭiyati, 'to be hurt,' M. i. 63, 1.

(3) Ayati, eti, in the examples given by kacc. 235 which are not found in any text, and besides in bāheti from bahis, 'to remove,' Senart Mahāvastu, 431; yanteti Jāt. i. 418; vijaṭrti and cijaṭāpeti, to disentangle; 'samoshāneti, 'to join,' part. samodhānita, Jāt. iii. 272; theneti, 'to steal,' Dh. 114, Jāt. iii. 18.

For sammanneti, Ras. 69, we ought most probably to read sammanneti, (Dh. 333), which is a denominative from mantra.

(4) ati in pariypdānati, 'to cease,' Dh. 331; sārajjati, 'to be ashamed,' Pāt. xliv.; osaņhati, 'to smooth,' C.V. 2, 3.

# 20. Participles

The Present participle terminates in ant or anta, which is added to the present stem, e.g., labham or labhanlo. About the declension of these participles and some other peculiarities, comp. p. 57. The same termination ant or anta is also used for the participle of the future, whhich, however, does not occur very frequently, e.g., karissnm Dāth. iii. 80.

In the attanopada we have the terminations *māna* and *āna* used almost without any difference gtom brtbs of all classes, the latter being more or less restricted to the ancient language. From *kar* we have the regular from *kubbāna*=kurvāṇa, Dh. v. 217, but also *karāṇa* in *purekkarāna*; From çī, 'to lie down,' we have *sayamāna*, Kh. 16; çush, 'to dry,' *sukkhamāna*, Jāt. i. 304; from *vas*, 'to dwell,' *samāna*, Mah. 121; from *as*, 'to be,' *samāna*, Kacc. 258. A contraction takes place in *sampajāno* for *sampajānāno* from jñā, 'to know,' Dh. v. 293.

The old perfect participle in vams has almost totally disappeared; a few remaining traces have been give above, p. 57.

The past participle passive is formed by adding the terminations ta and na as in Sanskrit. These may be added to the root or to the present stem with or without the vowel *i*. From vas we have, according to Kacc. 291, vusita and vuṭṭha, e.g., upavuṭṭha, Cariy. ii. 3,2; parivuttha, Pāt. 6; parvutted., Mil. 205; eusitaṃ brahmacariyaṃ, 'the religious duties have been fulfilled,' a location very frequent in canonical texts, e.g., M. v. 1, 18; besides vasita, Mah. 123, where we ought to read pabbajjāsitaṭṭhāne and adhivattha, Dh. 165, 341, 392 (adhivuttha, Mahāparin. 23). From jhash, 'to hurt,' we have jhatta, Mah. 146, Dh. 325, where the correct reading is ahātakajjhattā. From pat, 'to fall,' we have patita but also patta in pattakkhandha, 'cresfallen,' Mil. 5, Ass. S. 17. From icchati, 'to wish,' we have iṭṭha (or yiṭṭha after a word

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ending with a vowel) and *icchita*, which is wrongly given as a separate article by Childers. *Dhā* form the regular participle *hita*; *dhāta*, Mil. 238, Gr. 301, M. vi. 25, 1, S. ii. 51, is most probably from dhrā (see M. 384). Somewhat irregular is *khata* for *khāta* from hhan, 'to dig,' Kacc. 296, and the participles with n, where the Skt. drops it as *bandha*=baddha, Kacc. 130; *pilandha*, Mil. 337, from *pi*+*nah*; *randha*=raddha, Mil. 107; *parikanta*=parikṛitta, Suttavibh. i. 89 (but *parikatta*, Mil. 188).

Participles in na are somewhat more frequent in Pāli than in Skt. and in a few instances we find both forms from the same root, e.g., from dā we generally have dinna, but also datta in atta=ādatta, Fausb. S. N. 150, 153, Dh. v. 406; from rud, 'to weep,' we have rodita, Ab. 165 and ruṇṇa or roṇṇa, Kh. 12, Das. 36, Jāt. iii. 166, which is not an equivalent of rudana as Childers thought. From lī we have sallīna, 'depressed,' but also sallīta, Cariy. iii. 11, 10. Jyā forms jīna, Suttavibhanga, i. 220, comp. Pāṇ. viii. 2, schol.; çā, sīna in saṃsīnapatta, S.N.7. At v. 30 of the same Khaggavisāṇasutta we have saṃchinna, for which Senart Mahāvastu, 629, 630, gives the better reading saṃchaṇṇa from chard.

From this past participle passive is formed a secondary derivative by adding the suffixes *vat* or *vin* (the latter with lengthening of the *a*). This derivative has succeeded in its use to the lost past participle active in vams. Examples are *vusitavanto*, Mil. 104; *hutavā*, *hutāvī*, *bhuttavā*, *bhuttāvī*, Kacc. 281.

The participle of necessity is formed by adding the terminations tabba, tayya=tavya, amīya, ya. These terminations can be joined with or without the vowel i. Examples with tabba are frequent enough; jinitabba, Dh. 101; metabba, Kamm. 8; varijānitabba, Dh. 151; pativijjhitabba, Dh. 259; pariyāpuṇitabba, Alw. N. 23; tuṭṭhabba, Jāt. i. 476-tayya is, as far as I know, only given by grammarians. Anīya we have in karaṇīya; ya in sakkuṇeyya, Mah. 141, and in asaṃhīra for asamharya, Dīp. 31.

The infinitive generally terminates in tum, as gantum, 'to go;' sunitum, 'to hear,' from the present stem, Mil. 91;p satthum=prashtum, 'to ask,' Parābhavasutta, v. 1; parimetum from mā, Mil. 192; jinitum from ji, Kacc. 319; nikhātum, from khan, Cariy. iii. 6, 16; from budh we have patisambuddhum and duboddhum, Kacc. 8. Besides we have also the ancient vedic terminations tave, taye, and tāye, e.g., pahātave, Dh. v. 34; niketave, Jāt. iii. 274; nidhetave, Jāt. iii. 17; netave, Dh. v.

180; with tuye, ganetuye, Bv. iv. 28; marituye, Therīgāthā, 165; with tāye dakkhitāye, Mahāsamayasutta v. 1; jagghutāye, Jāt. iii. 226.

A curious form of the infinitive is etase from i, Therīgāthā, 151.

#### Gerund

The gerund is formed by adding the suffixes  $tv\bar{a}$  ( $tv\bar{a}na$  and  $t\bar{u}na$ ) and ya. In Dhp. the use of ya is resticted to compound verbs as in Skt., but later on it is also used for the single verb. Before these terminations the root genarally appears in the same shape as in the infinitive. Examples are very frequent:  $tv\bar{a}$  in  $netv\bar{a}=n\bar{1}tv\bar{a}$  (inf. netum). From dric, we have the anomalous gerund  $disv\bar{a}$ , where the t is entirely lost;  $dassitv\bar{a}$ . Suttavibhanga, ii. 64, should be changed into  $passitv\bar{a}$ . From  $h\bar{a}$ , 'to forsake,' we have the reduplicated form jahetvā,  $D\bar{1}p$ . 56, and  $jahitv\bar{a}$ , Dhp. 85, 333; from sthā,  $stitithitv\bar{a}$ ,  $D\bar{1}p$ . 335;  $upatitthitv\bar{a}$ , Mil. 231. A contracted form is anuvicca=anuviditvā (comm.  $j\bar{a}jitv\bar{a}$ ), Jāt. i. 459, Ang. ii. 2, 7, Fausb. S. N.xi.

Tvāna in passitvāna, Mah. 165; jahitvāna, Dh. 215; sunitvāna, Das. Jāt. 33; jinitvāna, Dh. 286; chetvāna, Dīp. 96; vatvāna, Dh. 193; daditvāna, Cariy. i. 9, 26; pavakkhitvāna, Mahāsamyasutta, 3. From the Skt. we can compare pītvānam, Pān. vii. 1, 48.

Tūna in kātūna or kattūna, Kacc. 310; Suttavibhanga, i. 96; āpucchitūna, Therīgāthā, 165; chaḍḍūna, ib. 169; nikkhamitūna. Theragāthā, 11; aotūnam, at the beginning of the Mahāvagga of the Dīghanikāya l. O.C. 69.

Ya in āhacca=āhṛitya (Skt. āhārya), in āhaccapāda, 'a sort of bed,' frequent in the Vinaya; āhacca=āhatya from han, Mah. 45, Kacc. 302; upachacca=upahatya, 1b., uhacca, Mahāsamayasutta, v.3; abbuyha from ā+bṛh, Dh. 255; nikacca=nikṛtya, Suttavibhanga, i. 90; and most probably also paṭigacca=pratikṛitya, with softenting of the k, comp. Trencker, Mil. 421; paticca=pratītya, but adhicca I perfer to derive with Childers from adhṛtya, answering to Skt. adhārya. Cicca, Khuddasikhā and sañcicca, Pāt. 3, 66, Suttavibhanga, i. 73, most probably stand for cintya=cintayitvā (comm. jānanto). From i we have anvāya, frequent in Dh. formed after the false analogy of māya from mi; from grah, samuggahāya, 'having embraced,' Fausb. S.N. 152.

Sometimes the termination ya of the gerund is dropped and the root alone remains, e.g., abhiññā for abhiññāya, 'having known;' patisankhā for paṭisankhāya, 'having reflected,' anupādā for anupādāya, Dīp. 15.

In a few cases we find a gerund with double suffix combined from ya and tvā, e.g., abhiruyhitvā for abiruyha, Kacc. 129; ogayhitvā for ogayha, Mah. 261; sajjhitvā from sad, Bālāvatāra, s. 58.

The suffix tum of the inf. can be used also for the gerund, but this use seems to be limited to a few verbs. In the Pālimokkha we have a gerund, abhihaṭṭhuṃ from har, which agrees exactly with the corresponding Jaina forms puraukāuṃ and gantuṃ (see my Beiträge zur Gramm. d. Jaina Prākṛt, p. 61). From Rhys David's and Oldenberg's note, Vinaya Texts, ii. 400, it appears as if they wanted to identify this form with those in tvāna and tūna like nikkamitūna; we learn, however, from Hem. ii. 146, that in abhihaṭṭhuṃ and the corresponding Prākṛt forms, the suffix of the inf. is used instead of the gerund. A similar form, distinguished only by the loss of the anusvāra is daṭṭhu=drashṭuṃ, 'having seen,' parallel with disvā, S. N. 73, Theragāṭhā, 48 The corresponding Prāk. from is given as daṭṭuṃ by Hem. 1. 1.; but we have also in Jaina Prāk. forms without anusvāra, as kaṭṭu and haṭṭu from kar and har.

As an exercise for the student, I give the text of a Jātaka, with a literal translation, and complete analysis of the words:

## VALĀHASSAJĀTAKA

(Fausböll's edition, vol. ii., p. 127, ff.)

Atīte Tambapannīpe Sirīsavatthun nāma yakkhanagaram ahosi. Tattha yakkhiniyo vasimsu. Tā bhinnanāvānam āgatakāle alamkatapatiyattā khādaniyam bhojaniyam gāhāpetvā dāsiganaparivutā dārake amkenādāya vānije upasamkamanti. Tesam manussavāsam āgat' amhā 'ti sañjānanattham tattha tattha kasigorakkhādīni karonte manusse gogane sunakhe ti evam ādīni dassenti vānijānam santikam gantvā "imam yāgum pivatha bhattam bhuñjatha khādaniyam khādathā" ti vadanti. Vānijā ajānantā tāhi dinnam paribhuñjanti. Atha tesam khādivā bhuñjitvā vissamitakāle patisanthāram karonti. "Tumhe katthavāsikā kuto āgatā kaham gacchissatha kena kammena idhāgat' atthā 'ti pucchanti "bhinnanāvā hutvā idhāgat' amhā" ti vutta ca "sādhu ayyā amhākam pi sāmikānam nāvam abhirūhitvā gatānam tīni samvaccharāni atikkantāni te matā bhavissanti, tumbe pi vānijā yeva mayam tumhākam pādaparicārikā bhavissāmā" ti vatvā vatvā te vāņije itthikuttabhāvavilāsehi palobhetvā yakkanagaram netvā sace pathamagahitā manussā atthi te devasamkhalikāya bandhitvā kāranaghare pakkhipanti. Attano vasanaṭṭhāne bhinnanāvamanusse alabhantiyo pana parato Kalyānim orata Nāgadīpam ti evam samuddatīram anuvicaranti, ayam tāsam dhammatā. Ath' ekadivasam 94 Grammar

pañcasatā bhinnanāvā vānijā tāsam nagarasamīpe uttarimsu. Tā tesam santikam gantvā palobhetvā yakkhanagaram ānetvā pahamagahitamanusse devasam-khalikāya bandhitvā kāramaghare pakkhipitvā jetthakayakkhinī jetthakavānijam sesā sese ti tā pañcasatā vakkhinivo te pañcasate vānije attano sāmike akamsu. Atha sā jetthayakkhinī rattibhāge vānije niddam gate utthāya gantvā kāranaghare manusse māretvā mamsam khāditvā āgacchati. Sesāpi tath' eva karonti. Jetthayakkhiniyā manussamamsam khāditvā āgatakāle sarīram sītalam hoti. Jetthavānijo pariganhanto tassā yakkhınibhāvam ñatvā "imā pañcasatāpi yakkhiniyo bhavissanti, amhehi palāyitum vattatīti" punadivase pāto va mukhadhovanatthāya gantvā sesavānijānam ārocesi : imā yakkhiniyo na mānusiyo, aññesam bhinnāvānam āgatakāle te sāmike katvā amhe khādissanti, etha amhe palāyāmā" ti tesu addhateyyasatā "mayam etā vijahitum na sakkissāma, tumhe gacchatha, mayam na palāyissāmā' tāhamsu. Jetthavānijo attano vacanakare addhatevvasate gahetvā tāsam bhīto palāvi. Tasmim pana kāle Boddisatto valā hassayoniyam nibbatti, sabbaseto kākasīso muñjakeso iddhimā vehāsamgamo ahosi. So Himavantato ākāse uppatitvā Tambapannidīpam gantvā tattha Tambapannisare pallale sayamjātasālim khāditvā gacchati, evam gacchanto va "janapadam gantukāmā atthi janapadam gantukāmā atthīti" tikkhattum karuṇāya paribhāvitam mānusivācam bhāsati. Te tassa vacanam sutvā upasamkamitvā añjalim paggayha "sāmi mayam janapadam gamissānā" ti āhaṃsu. "Tena hi mayham puthim abhirūhathā" ti Ath' ekacce abhirtūhimsu ekacce vāladhim ganhimsu ekacce añjalim paggahetvā aṭṭhamsu yeva. Bodhisatto antamaso añjalim paggahetvā thite sabbe pi te addhateyyasate vānije attano ānubhāvena janapadam netvā sakasakatthānesu patitthāpetvā attano vasanatthānam agamāsi. Tāpi kho yakkhiniyo aññesam agatakale te tattha ohinake addhatey-yasate nanusse vadhitva khādimsu.

## Translation

In former times there was in the island of Lankā a Yakkha city called Sirīsavatthu. Therein dwelt Yakkhinīs. These, whenever a shipwereck took place, in splendid clothing, taking soft and hard food, surrounded by female salves, carrying children on their hips, went to meet the merchants. That they might think, "We have come to a abode of men," they would show here and there men ploughing and tending cattle and so forth, herds of cattle, dogs, etc., and approaching the merchants they would say, "Drink this rice gruel, partake of this rice, eat this food." The merchants, unawares, enjoy what is given by them. Thus having eaten and enjoyed, while resting.

they exchange friendly greetings. They ask: "Where do you live? whence do you come? whither are you going? on what business have come hither?" They answer. "We have come hither, having been shipwrecked." [Then the Yakkhhinīs say]: "Well, sirs, three years have passed since our husbands went on board ship and went away; they must be dead; you are also merchants, we will be your servants." Thus they enticed those merchants with female blandishments, and leading them to the Yakkha city, the first men being captured, having bound them as it were with supernatural chains, they hurry them into the abode of destruction. If they do not obtain shipwrecked men near their own place of abode, they wander along the sea-shore as far as Kalyāni on the other side, and Nagadipa on this side, and this is their custom. On a certain day, 500 merchants came to their city. The females approaching them, enticed them, and bringing them to the Yakkha city, binding the men whom they first captured as with supernatural chains, they hurried them into the abode of destruction, the first Yakkhinī took the chief merchant, the others the remainder, and so the 500 Yakkhinis made the 500 merchants their husbands. Then the chief Yakkhinī in the night time, when the merchants had gone to sleep, rising, goes to the abode of destruction, and, kelling men, eats their flesh, and returns. The others do likewise When the chief Yakkhinī returned, after having eaten the human flesh, her body was cold. The chief merchant, having embraced her, knew that she was a Yakkhini, and thought: "These must be 500 Yakkhinīs; we must escape." On the morrow, in the early morning, on going to wash his mouth, he told the other merchants: "These are Yakkhinīs, not human beings; when other shipwrecked men come, they will make them their husbands, and devour us. Shall we not flee? But 250 said: "We are unable to leave them; you go; we shall not flee." The chief merchant, having persuaded the 250 by his advice, fled, terrified at the females. Now at that very time the Bodhisattva was born from the womb of a mare; he was pure white, black headed, muñja haired, possessed of supernatual power, being able to go through the air. Rising through the air from the Himavanta, he went to the isle of Tambapanni, and having eaten paddy, produced spontaneously in the lakes and ponds of Tambapanni, he went on, and thus proceeding, said compassionately three times in a well modulated human voice: "Does any person wish to go? Does any person wish to go? They, hearing the speech, came near with folded handds, and said: "Sir, we folk wich to go." "Then get upon my back," said he. Then some got on his back, some seized his tail, but

stood with folded hands Bodhisatta, by his own supernatural power, conveying all the 250 merchants, even those standing with folded hands, placing each in his own place, returned to his own abode. But the Yakkhinīs, when the time of the others had come, killed the remaining 250 and are them.

This story is another version of the well-known myth of the Sirens, as was pointed out for the first time by Dr. Morris, in the "Academy" of Aug. 27, 1881 (reparinted in the "Indian Antiquary" for October, 1881, pp. 292-93)

Atīte, 'in the former times,' loc. sing. of the past part. of i 'to go,' with ati.

Tambapaṇṇidīpe, 'in the island of Ceylon,'=Tāmarparnidvīpe, loc. sing., tāmraparṇi literally means 'copper leaf,' most probably from the colour of the soil in the island. Ceylon was called the 'Island of the Demons,' as can be seen from Senart "Le Légende du Bouddha,' p. 272, et seq. Allusion is made to this my th also in the Lalitavistara, p. 196, ed. Cale.:

Laghu gagane vrajase kripāto rākhasadvīpam.

Vyasanaçata manujān tada gṛhya kshame sthapesi.

Sirīsavatthun (v. 1. °vatthu) nom. sing. of a neuter u-stem. About the locality of this fabulous town nothing is known to me.

 $N\bar{a}ma$ , nom. sing. of a neuter n-stem.

Yakkhanagaram, nom. sing. of a neuter a-stem.

Ahosi, 3rd. pers. sing. Aorist of bhū or hū, 'to be.'

Tattha=tatra, 'there,' adverb of place.

Yakkhiniyo, nom. pl of yakkhinī, 'a female yakkha.'

Vasimsu, 3rd. pl., aorist of vas, 'to dwell.'

 $T\bar{a}$ , nom. pl. fem. of the demonstr. pronoun.

Bhinnanāvānam, gen. pl. of a bahuvrīhi compound from bhinna and nāvā, 'ship.' Bhinna is the past part. pass. of bhid, 'to break,' and the whole compound means 'shipwrecked.'

 $\bar{A}gatak\bar{a}le$ .  $\bar{A}gata$  is past part. pass. from  $\bar{a}+gam$ , 'to go,' and  $k\bar{a}le$ , loc. of  $k\bar{a}la$ , 'time.'

Alamkatapaṭiyattā, a compound of two past participles. Alamkata + Skt. alamkrita, 'adorned, embellished,' from alam+kar. Paṭiyatta

from prati+yat, 'to prepare, to dress.' The whole compound stands in the nom. pl. f.

Khādaniyam, acc. sing. n. of the part. of necessity of  $\sqrt{khād}$ , 'to eat.' It means literally, 'that can be chewed,' i.e., 'solid food.'

Bhojaniyam, acc. sing.n. of the part. fo necessity of  $\sqrt{bhuj}$ , 'to eat.' means, in opposition to  $kh\bar{a}daniyam$ , 'soft, or wet food,' as boiled rice, etc.

 $G\bar{a}h\bar{a}petv\bar{a}$ , gerund of the causative of  $\sqrt{gah}$ , 'to take,' lit 'to sause to be taken.'

Dāsigaṇaparivuṭā, nom. pl. f., parallel to alaṃkatapaṭiyaṭṭā Dāsigaṇa, 'a troop of female slaves,' parivuṭa, past part. pass. of pari+var, 'to surroud.'

Dārake, acc. pl. of dāraka, 'child.'

Amkenādāya. Amkena, instr. sing. of amka, 'hip,' adaya, gerund of a+da, 'to take.' The whole means 'having taken on the hip.'

Vāṇije, acc. pl. of vāmjc, 'merchant.'

*Upasaṃkamanti*, iii. pl. pres. of upa + saṃ + kraṃ, 'to approach.' *Tesam*, gen. pl. m. of the demonstr. pronoun.

Manussavāsam, acc. sing. of manussa, 'man,' and vāsa, 'dwelling.'

 $\bar{A}gat$ ' stands in sandhi for  $\bar{a}gat\bar{a}$ , nom. pl. of the past part. of  $\bar{a}+gam$  (see above,  $\bar{a}gatakale$ ).

Amhā ti stands in sandhi for amha iti. Amha is 1st pers. pl. pres. of the verb subst. as. Iti is generally used after a quotation.

Sañjānanattham, composed from sañjānana, 'perceiving,' and the acc. of attha, 'purpose.' It means 'for the purpose of perceiving.'

Tattha, tattha, see above. The repetition is distributive, 'here and there.'

Kasigorakkhādini, kasi=kṛshi, 'ploughing,' gorakkhā, 'cowkeeping;' ādīni is the neuter pl. of ādi, 'etc.' The whole compound is an acc. dependent from the following karonte.

Karonte, acc. pl. m. pres. part. of kar, 'to make.' This belongs to manusse and depends from dassenti.

Manusse, acc. pl. of manussa, 'man.'

Gogane, acc. pl. 'herds of cattle.'

Sunakhe, acc. pl. of sunakha, 'dog.'

Ti = iti, see above.

Evam, paarticle, 'thus.'

Ādīni, acc. pl. n. of ādi, 'etc.'

Dassenti, 3rd pers. pl. pres. caus. of darç, 'to see.'

Vānijānam, gen. pl. of vānija, 'merchant,' dependent from satikam.

Santikam, acc. of sa+antika, 'near.'

Imam, acc. sing. f. of the demonst. pronoun.

 $Y\bar{a}gum$ , acc. sing. of  $y\bar{a}gu = yav\bar{a}gu$ , 'rice-gruel,' a fem. u-stem.

Pivatha, 2nd pers. pl. imp. of pibati, 'to drink.'

Bhattam, acc. sing. of bhatta=bhakta, 'boiled rice.'

Bhuñjatha, 2nd pers. pl. imp. of bhunjati, 'to eat.'

Khādaniyam, see above.

Khādatha, 2nd pers. pl. imp. of khādati, 'to eat'. The long a is the crasis, as in amhā, above.

Vānijā, nom. pl. of vāṇija.

 $Aj\bar{a}nant\bar{a}$ , nom. pl. f. of the pres. part. of jna, 'to know,' with a privativum, 'not knowing.'

Tāhi, instr. pl. of the demonstr. pronoun.

Dinnam, acc. sing. past part. of  $d\bar{a}$ , 'to give.' The substantive is understood.

Atha, particle, 'then.'

Khāditvā, gerund from khād.

Bhuñjitvā, gerund from bhuj.

Vissmitakāle, similar to  $\bar{a}gatak\bar{a}le$ , above. Vissamita, past part. from vi+cram, 'to rest.'

Pațisanthāram, acc. sing. of a masc. a-stem.

Karonti, 3rd pers. pl. pres. of kar.

Tumhe, nom. pl. pers. pronoun, 2nd pers.

Katthavāsikā, nom. pl. of compound from kattha=kutrs,

'where,' and vāsika, 'living.'

Kuto=kutas, 'whence.'

Āgatā, nom. pl. of ahata, see above.

Kaham, interrog. particle, 'where, whither.'

Gacchissatha, 2nd pers. pl. fut. of gacch, the present stem of gam, 'to go.'

Kena kammena, instr. sing. of the interrog. pronoun and kamma=karman, 'business.'

 $Idh\bar{a}gat'=idha+\bar{a}gat\bar{a}.$ 

Attha, 2nd pers. pl. pres. of as, 'to be.'

Pucchanti, 3rd pers. pl. pres. of pucch, 'to ask.'

Bhinnanāvā, nom. pl., see above.

Hutvā, gerund of bhū or hū, 'to be.'

Vutte, locative absolute of the past part. of vac, 'to speak.'

Ca, 'and,' copulative particle.

Sādhu, neuter adjective, 'well.'

Ayyā, voc. pl. of ārya, 'sir.'

Amhākam, gen. pl. personal pronoun, 1st pers.

Pi = api, 'also.'

Sāmikānam, gen. pl. of sāmika, 'husband.'

Nāvam, acc. sing. of nāvā, 'ship.'

Abhirūhitvā, gerund of abhiruh, 'to mount.'

Gatānam, gen. pl. of gata. This belongs to sāmikānam and depends from tīni samvaccharāni atikkantānuy.

Tīṇi, nom. pl. n. of the numeral stem ti, 'three.'

Samvaccharāni, nom. pl. of a neuter a-stem.

Atikkantāni, nom. pl. n. past part. of ati+kram, 'to go beyond, to pass.'

Te, nom. pl. m. demonstr. pronoun.

Matā, nom. pl. past part, of mar, 'to die.'

Bhavissanti, 3rd pers. pl. fut. of bhū, 'to be'

Tumhe, see above.

Yeva in Sandhi for eva.

Mayam, nom. pl. pers. pronoun, 1st pers.

Tumhākam, gen. pl. pers. pronoun, 2nd pers., see above, amhākam.

Pādaparicārikā, nom. pl. f. from pāda, 'foot,' and particārika, 'servant.'

Bhavissāma, 1st pers. pl. fut. of bhū.

Vatvā, gerund from vac, 'to say.'

Itthikuttabhāvavilāsehi, compound from itthi=strī, 'woman,' kutta of unknown etymology, most probably synonymous with the following vilāsa, 'charm, beauty.' The whole stands in the instr. pl.

Palobhetvā, gerund of the caus. of pra+lubh, 'to seduce.'

Yakkhangarm, the acc. to denote the direction, 'to the Yakkha city.'

Netvā, gerund of nī, 'to lead.'

Sace, conjuction, 'if.'

Pathamagahitā, from pathama, 'first,' and gahita=gṛhīta, past part. of grah, 'to take' The whole stands in the nom. pl.

Atthi, 3rd pers. sing., instead of the plural.

Devasamkhalikāya, from deva, 'god,' and samkhalikā=çṛṅkhala, 'a chain.' The whole is a tappurisa compound, and stands in the instr. case.

Bandhitvā, gerund from banth, 'to bind.'

Kāraṇaghare, loc. of kāraṇa, 'destruction,' and ghara=gṛha, 'house.'

Pakkhipanti, 3rd pers. pl. pres. of pra+kship, 'to throw'

Attano, gen. sing. of attā=ātman, 'self.'

Vasanaţthāna, loc. of vasana, 'dwelling,' and sthāna, 'place.'

Alabhantiyo, nom. pl. f. of the pres. part. of labh, 'to obtain,' with a privativum.

Pana=punar, 'again.'

Parato and orato, abl. sing. of para, 'further,' and ora, 'hither.'

Kalyāṇiṃ and Nāgadīpaṃ, acc. of direction. Kalyāṇi must be the modern Kaelani on the Kaelani Gaṅgā, about six miles from Colombo, where there is a celebrated Buddhist temple. Nāgadīpa is most probably identical with the Naggadīpa of the Mahāvaṃsa (p. 46), which island Vijaya is said to have touched on his way from Bengal to Ceylon, but nothing can be made out about the situation of this island.

Samuddatīram acc. from samudda, 'the sea,' and tīra, 'the shore.'

Anuvicaranti, 3rd pers. pl. pres. of anu+vi+car, 'to wander along.'

Ayam, nom. sing. f. of the demonstr. pronoun.

Tāsam, gen. pl. f. of the demonstr. pronoun ta.

Dhammatā, 'occupation,' f. ā-stem.

Ekadivasam, from eka, 'one,' and divasa, 'day.' Acc. to denote time.

Pañcasatā, nom. pl. of pañca, 'five,' and satam, Nagarasamīpe, loc. of nagara, 'town,' and samīpa, 'hundred'. 'neighbourhood.'

Uttarimsu, 3rd pers. pl. aorist from ut+tar, 'to cross over.'

Gantvā, gerund from gam, 'to go.'

Ānetvā, see netvā, above.

Pakkhipitvā, gerund from pra+kship

Jetthakayakkhınī, 'the chief or first Yakkhinī.'

Sesā, nom. pl. f. and sese, acc. pl. m. of sesa, 'other'

Vāṇije and sāmike, acc. pl.

Akamsu, 3rd pess. pl. aorist from kar.

Rattibhāge, loc. to denote time.

Niddam, acc. of  $nidd\bar{a}$ , 'sleep,' to denote the direction, dependent from gate.

Gate, acc. pl. belongs to vāṇije.

 $Utth\bar{a}ya$ , gerund from  $ut+sth\bar{a}$ , 'to get up.'

Māretvā, gerund of the caus. of mār, means 'to kill.'

 $\bar{A}$ gacchati, 3rd pers. sing. pres. of  $\bar{a}$ +gacch.

Jetthakayakkhiniyā, gen. sing. dependent from sarīram.

Manussamamsam, acc. 'human flesh.'

Sītalam, neuter adjective.

Sarīram, nom. of a neuter a-stem.

Hoti, 3rd pers. sing. pres. of bhū or hū.

Pariganhanto, nom. sing. of a pres participle, from pari+grah, 'to embrace.'

Tassā, gen. sing. f. demonstr. pronoun.

Yakkhinibhāvam, acc. 'quality of a Yakkhinī'.

Natvā, gerund from jñā, 'to know'.

*Imā*, nom. pl. f. demonstr. pronoun.

Bhavissanti, 3rd pers. pl. fut. of bhū.

Amhehi, dat. pl. pers. pronoun, 1st pers.

Palāvitum, inf. of palāyati, 'to flee.'

Vattati, 3rd pers. sing. pres. of vart, 'it behoves, it is right.'

Punadivase, 1. of puna, 'again,' and divasa, 'day,' means, 'on the next day.'

Pāto=prātar, 'early.'

Va for eva with the initial e elided after a long vowel.

Mukhadhovanatthāya, compound of mukha, 'mouth,' dhovana,

washing,' and attha. 'purpose,' the whole in the dat. to denote the intention.

Sesavāṇijānaṃ, gen. pl used instead of the dat. dependent from ārocesi.

 $\bar{A}rocesi$ , 3rd pers. sing. aor. from  $\bar{a}+ruc$ , 'to tell.'

Mānusiyo, nom. pl. of mānusī, the f of mānusa, 'man'.

Aññesam, gen. pl. m. of añña, formed according to the pronominal inflexion.

Amhe, acc. pl. m. of the pers. pronoun, 1st pers.

Khādissanti, 3rd pers. pl. fut. of khād.

Etha, 2nd pers pl. imp. of i, 'to go.'

Amhe, nom. pl. m. of the pres. pronoun, 1st pers.

Palāyāma, 1st. pers. pl. imp. of palāyati.

Tesu, loc. pl. m. demonstr. pronoun.

Addhateyyasatā=ardhatrtīyaçatāḥ, literally, 'the third hundred half,' a very common way of expressing the number 250.

Etā, acc. pl. f. demonstr. pronoun.

Vijahitum, inf. of vi+hā, 'to forsake.'

Sakkhissāma, 1st pers. pl. of çak, 'to be able,' with the double fut. suffix, see p. 87.

Tumhe, nom. pl. m. pers. pronoun, 2nd pers.

Gacchatha, 2nd pers. pl. imp. of gam, 'to go.'

Palāyissāma, 1st pers pl. fut. of palāyati.

Ahamsu, 3rd pers pl. aorist of ah, 'to say.'

Vacanakare, loc. sing. of vacana+kara.

Addhateyyasate, acc. pl.

Gahetvā, ground of grah, 'to take.'

Tāsaṃ, gen. pl. f. demonstr. pronoun.

Bhīto, past part. of bhī, 'to fear.'

Palāyi, 3d. pers. sing. aor.

Tasmim, loc. sing. m. demonstr. pronoun.

Pana = punar, 'again.'

Bodhisatto, nom. sing.

Valāhassuyoniyam, compound from valāha, 'cloud,' assa, 'horse,' and yoni, 'womb.' The whole stands in the loc. sing

Nibbatti, 3rd pers aor. of nis+vart, 'to be born'

Sabbaseto = sarvaçveta, 'all white'

Kākasīso, literally, 'crow-headed.'

Munjakeso, 'with hair like the munja,' a certain sort of grass.

*Iddhimā* = ṛddhimant, nom. sing of a stem in ant.

Vehāsamgamo, nom. sing. of vehāsa = vihāyasa, 'the open air,' in the acc. case, and gama, verbal adjective of gam, 'to go.'

So, nom. sing. m. of the demonstr. pronoun.

Himavantato, abl sing of Himavanta, 'the Himālaya,' with suffix to.

Ākāse, loc. sing. of ākāsa, 'the sky.'

Uppatitvā, gerund from ud+pat, 'to rise.'

Tambapannidīpam, acc. of direction.

Sare and pallale, are loc. sing. of sara=saras, 'the pond,' and pallala, =palvala, 'the pool.'

Sayamjātasālim, acc. sing. of sayam=savayam, 'self,' jāta, past part. from jan, 'to produce,' and sāli, 'rice.'

Janapadam, acc of direction. Janapada is a compound from jana, 'people,' and pada, 'place'

 $Gantuk\bar{a}m\bar{a}$ , nom. pl. of gantu, inf. of gam, 'to go,' and  $k\bar{a}ma$ , 'wishing.'

Atthi stands for the plural. The whole sentence is a question.

Tikkhattum = trshkrtvas, numeral adverb, 'three times.'

Karuṇāya, instr. sing. of karunā, 'mercy,' a fem. ā-stem.

Paribhāvitam, acc. sing. f. of the past part. caus. of  $pari+bh\bar{u}$ , 'to surround.'

Mānusivācam, acc. sing. of the f. of mānusa, 'human,' and vāc, 'speech.'

Bhāsati, 3rd pers. sing. pres. of bhāsh, 'to speak.'

Tassa, gen. sing. m. demonstr. pronoun.

Vacanam, acc. sing. of a neuter a-stem.

Stuvā, gerund of çru, 'to hear.'

Upasamkamitvā, gerund of upa+sam+kram, 'to approach.'

Añjalim, acc. sing of a m. i-stem.

Paggayha, gerund of pra+grah, 'to stretch forth.'

Sāmi, voc. sing.

Gamissāma. 1st. pers. pl. fut. of gam.

Mayham, dat. instead of gen. sing. of the pers. pronoun, 1st pers.

Pitthim, acc. of pitthi=prshtha, 'back.'

Abhirūhatha, 2nd pers. pl. imp. of abhi+ruh, 'to ascend.'

Ekacce, nom. pl. of ekacca = ekatya (see above, p. 34) formed according to the pronominal inflexion.

Abhirūhuṃsu, 3rd pers. pl. aorist of abhi+ruh.

Vāladhim, acc. sing. of a m. i-stem.

Ganhimsu, 3rd pers. pl. aorist of grah.

Atthamsu, 3rd pers. pl. aorist of sthā, 'to stand.'

Antamaso, abl. of the superlative antama, 'the last,' formed with the suffix ças (see p. 48).

Thite, acc. pl. of thita, past part. of stha

Anubhāvena, instr. sing. of a m. a-stem.

Sakasakaṭṭhānesu, compound from saka=svaka, 'own,' and thāna, 'place.' The repetition of saka is distributive.

Patitthāpetatvā, gerund of the caus. of prati+sthā, 'to establish.

Agamāsi, 3rd pers. sing. aorist of gam.

 $T\bar{a}pi = t\bar{a} \ api.$ 

Kho=khalu, 'indeed.'

 $A\tilde{n}\tilde{n}esam$ , gen. pl. m. of  $a\tilde{n}\tilde{n}a$ , according to the pronominal inflexion.

Ohinake, acc. pl. of the past part, of  $ava+h\bar{a}$ , 'to forsake,' with the secondary suffix ka.

Vadhitvā, gerund of vadh, 'to kill.'



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